

## **BAB V**

### **KESIMPULAN DAN SARAN**

#### **5.1 Kesimpulan**

Melakukan analisis dan perancangan pada struktur Gedung *Rusunawi Latumeten* di Jakarta, memerlukan mekanisme pelaksanaan yang tepat dan akurat pada setiap aspek pokok struktur sehingga bangunan yang dihasilkan benar-benar kuat dan memberi rasa aman. Dari data analisis dan perancangan yang telah dibuat dapat diambil beberapa kesimpulan seperti yang tercantum di bawah ini.

1. Pelat tangga digunakan tebal 120 mm dengan tulangan D13-200 pada tumpuan dan D13-100 pada lapangan.
2. Pelat lantai dan atap digunakan tebal 130 mm. Pelat atap dua arah dengan tulangan P10-100 untuk arah X dan tulangan P10-100 untuk arah Y,. Pelat lantai dua arah dengan tulangan P10-100 untuk arah X dan tulangan P10-100 untuk arah Y
3. Balok induk B6 Lantai 19 digunakan dimensi 400/300 menggunakan tulangan pokok atas 4D25 dan tulangan pokok bawah 5D19 untuk daerah tumpuan, sedangkan tulangan pokok atas 3D22 dan tulangan pokok bawah 5D19 untuk daerah lapangan. Untuk tulangan sengkang digunakan 5P10-75 pada daerah sendi plastis dan 5P10-90 untuk daerah luar sendi plastis.
4. Kolom struktur C45 As 5 Lantai digunakan dimensi 800x800 dengan jumlah tulangan longitudinal 20D25, dengan 6D25 pada setiap sisinya. Untuk

tulangan geser digunakan 4D13-100 pada daerah sendi plastis dan 4D13-150 pada daerah diluar sendi palstis.

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## **5.2 Saran**

Banyak hal yang ditemukan dalam proses perencanaan maupun desain untuk menyelesaikan pembangunan proyek rusunawi ini yang dapat dirangkum dalam saran berikut ini.

1. Pada perencanaan estimasi tebal pelat yang digunakan adalah 130 mm sehingga memenuhi syarat aman sesuai dengan peraturan yang terdapat pada SNI 03-2847-2002. Tebal pelat yang digunakan tersebut dapat ditambah, namun harus mengecek kontrol lendutan izin maksimum pada pelat tersebut sesuai dengan peraturan yang terdapat pada tabel 9 SNI 03-2847-2002.
2. Pada perencanaan estimasi tinggi balok yang digunakan adalah 400 mm sehingga memenuhi syarat aman sesuai dengan tabel 8 pada SNI 03-2847-2002. Tinggi balok yang digunakan tersebut dapat dikurangi, namun harus mengecek kontrol lendutan izin maksimum pada balok yang ditinjau sesuai dengan peraturan yang terdapat pada pasal 11.5.2 SNI 03-2847-2002.

## **DAFTAR PUSTAKA**

Badan Standarisasi Nasional, 2002, *Tata Cara Perencanaan Struktur Beton Untuk Bangunan Gedung*, SNI 03-2847-2002, Yayasan LPMB, Bandung.

Badan Standarisasi Nasional, 2002, *Tata Cara Perencanaan Ketahanan Gempa untuk Bangunan Gedung*, SNI 03-1726-2002, Yayasan LPMB, Bandung.

Bowles, J.E., 1984, *Analisa dan Disain Pondasi*, Penerbit Erlangga, Jakarta.

Departemen Pekerjaan Umum, 1983, *Peraturan Pembebanan Indonesia untuk Gedung*, Yayasan LPMB, Bandung.

Jack Mc Cormac, 2001, *Desain Beton Bertulang* Penerbit Erlangga, Jakarta

Dipohusodo, I., 1994, *Struktur Beton Bertulang*, Gramedia, Jakarta.

Nawy, E., G., 1990, *Beton Bertulang Suatu Pendekatan Dasar*, PT. Eresco, Bandung.

Purwono, R., 2006, *Perencanaan Struktur Beton Bertulang Tahan Gempa Edisi Kedua*, ITS Press, Surabaya.

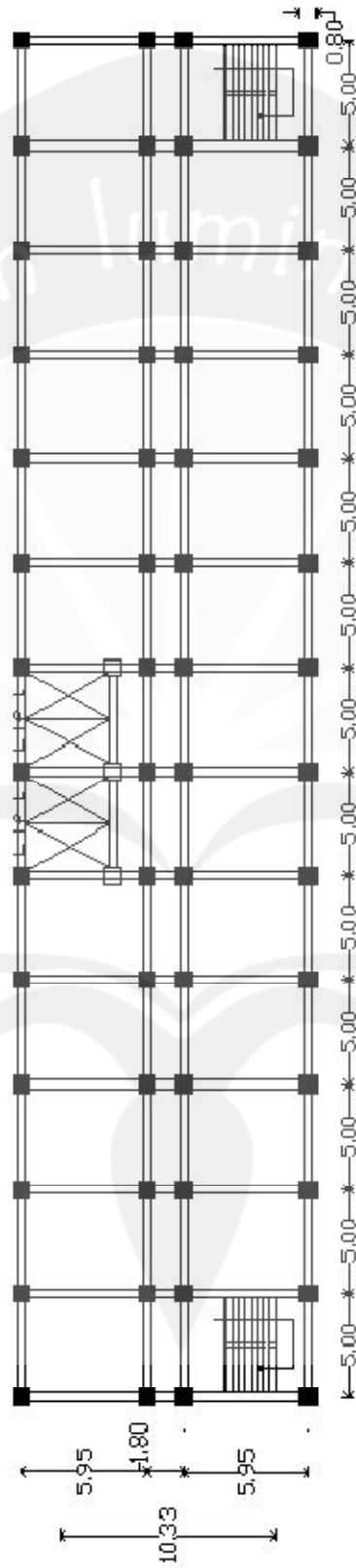
Iswandi, I dan Fajar, H 2009, *Perencanaan Struktur Gedung Beton Bertulang Tahan Gempa*, Penerbit ITB, Bandung.

Suryolelono, K.B., 1996, *Teknik Fondasi Bagian I, Fondasi Telapak dan Dinding Penahan Tanah*, PAU IT UGM, Yogyakarta.

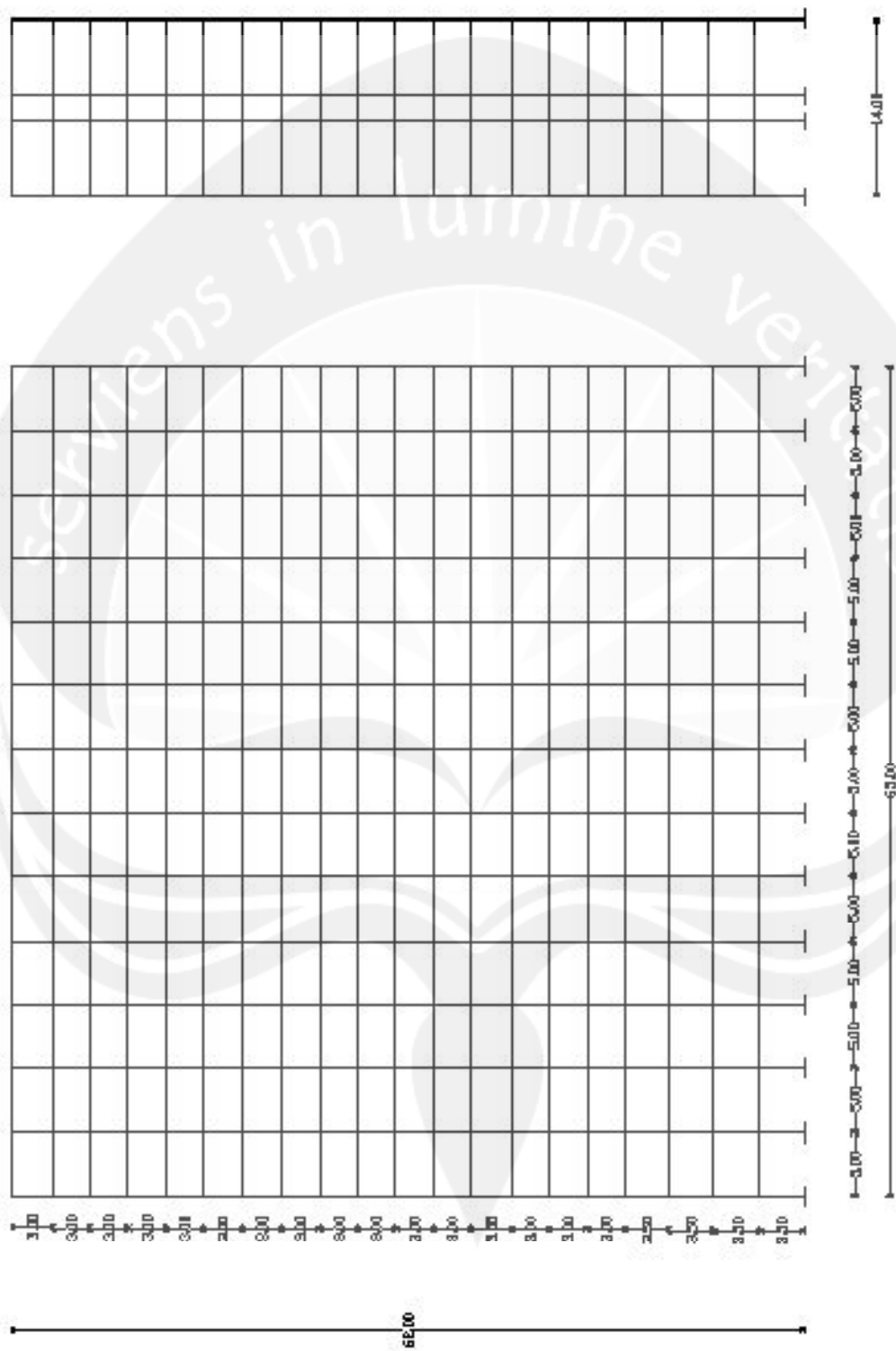
Wang, C.K., Salmon Charles G., 1985, *Disain Beton Bertulang*, Penerbit Erlangga, Jakarta.

LAMPIRAN

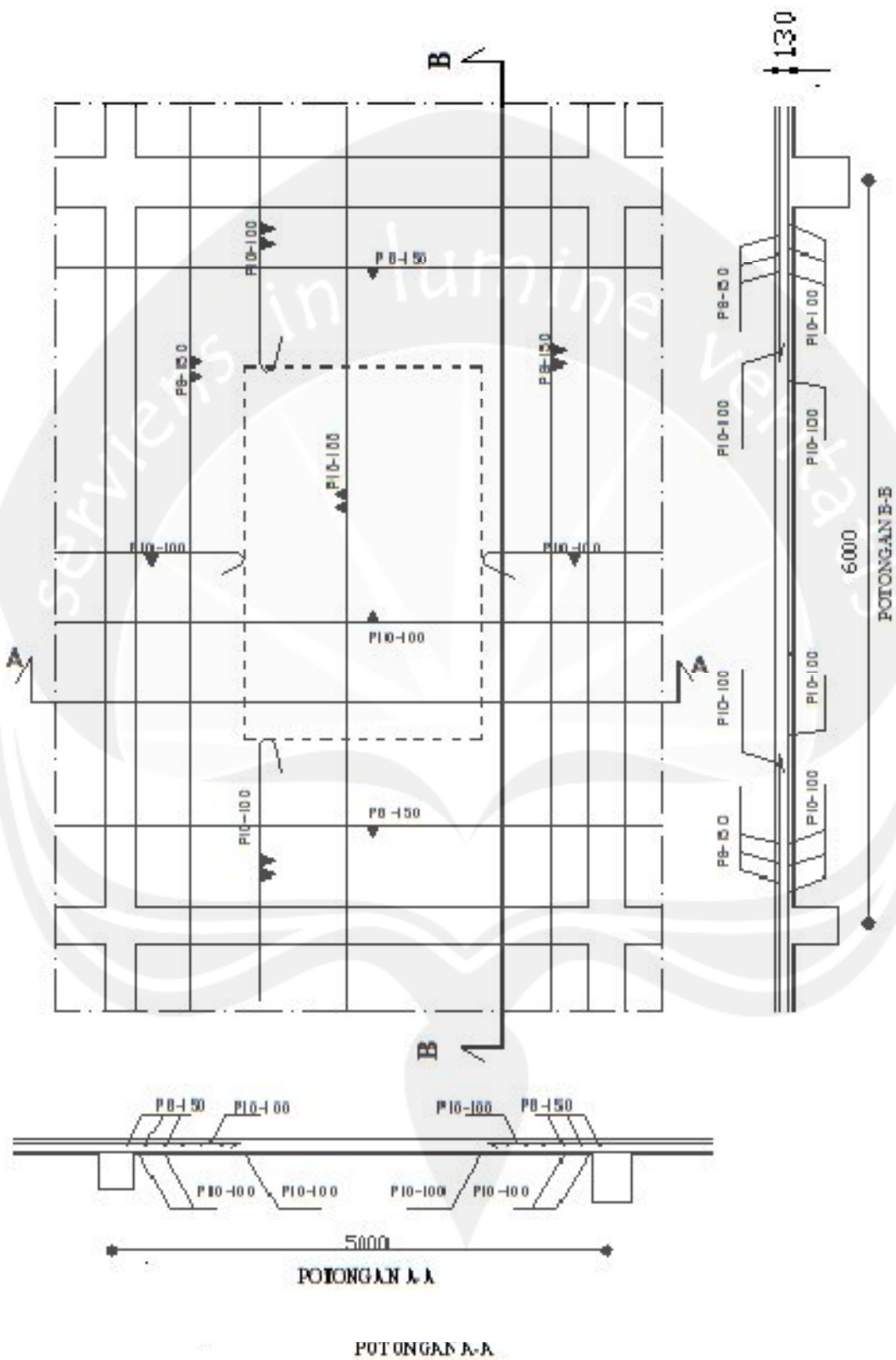




DENAH LANTAI 1-20

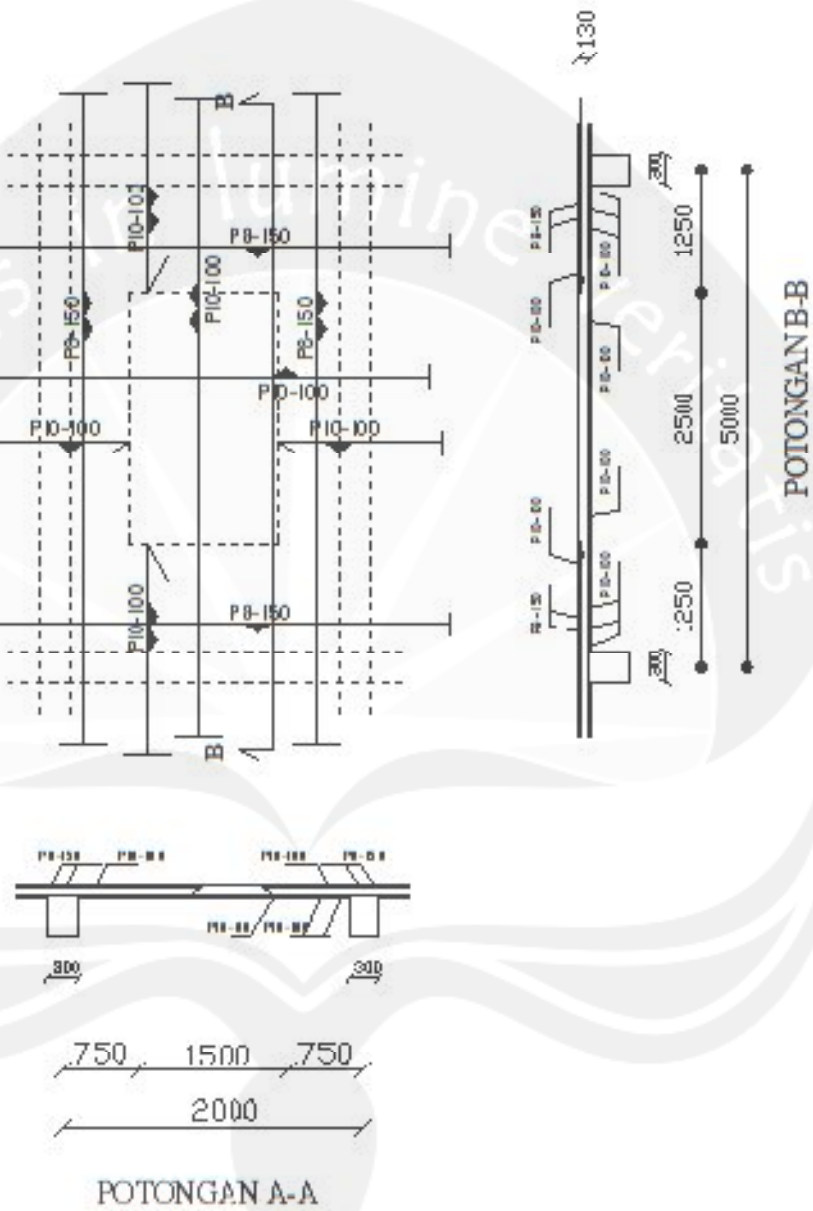


GAMBAR TAMPAK



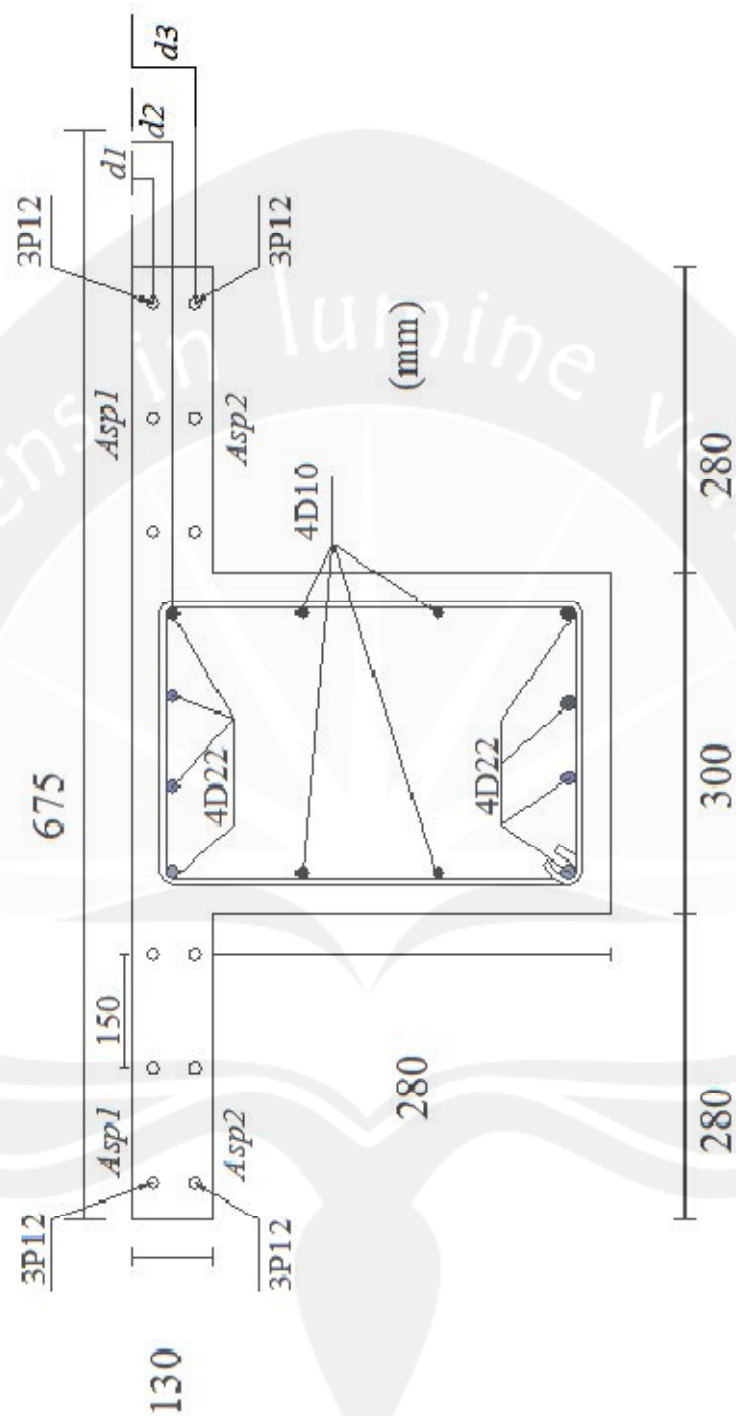
GAMBAR PENULANGAN DUA ARAH PADA LANTAI

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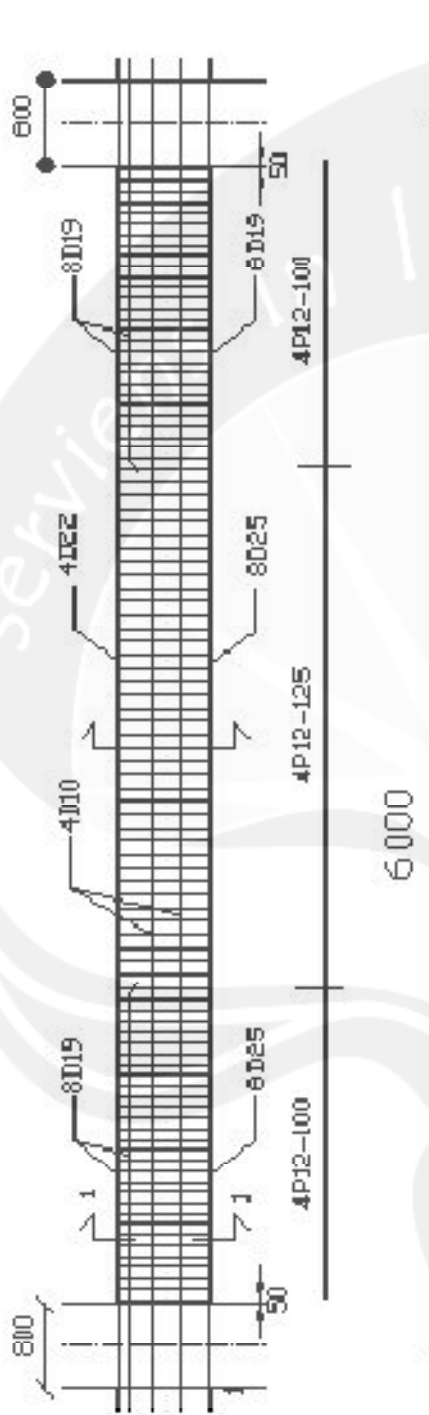


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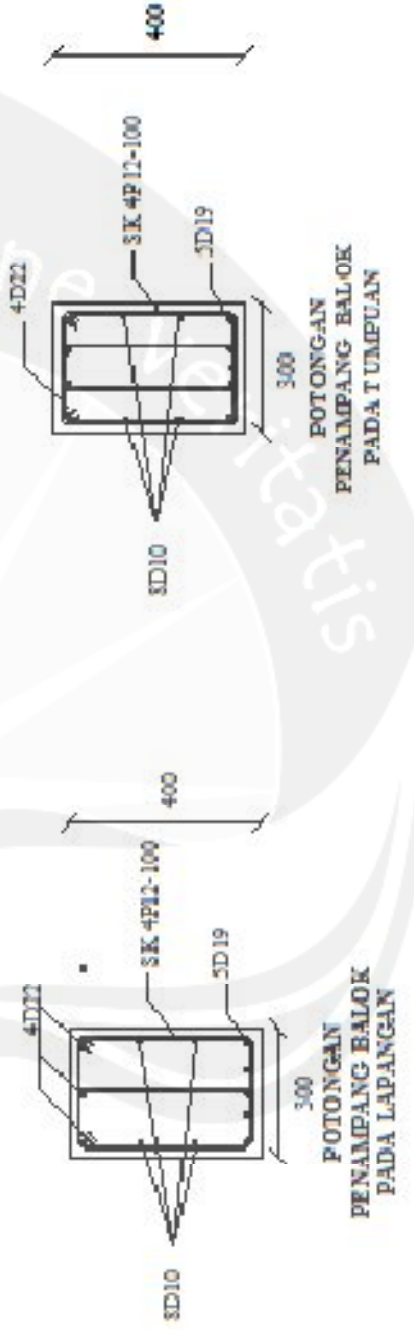


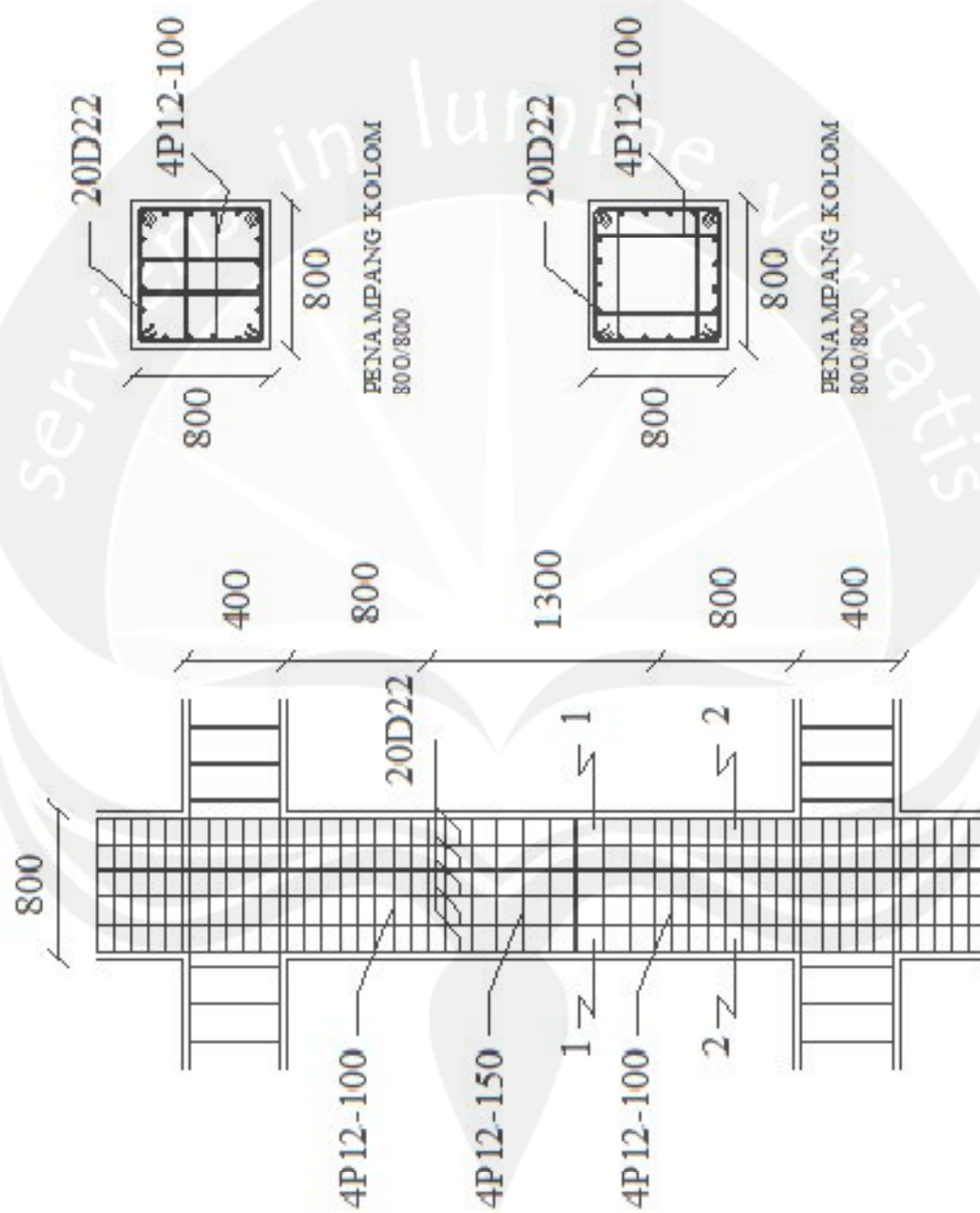


Detail Penulangan Balok T



GAMBAR PENULANGAN BALOK INDUK





**GAMBAR PENULANGAN KOLOM**

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LOA DING CO MBINATIO NS

COMBO	TYPE	CASE CASE	SCALE TYPE	FACTOR
DCON1	ADD	DL	Static	1,4
	SD	Static	1,4	
DCON2	ADD	DL	Static	1,2
	LL	Static	1,6	
	SD	Static	1,2	
DCON3	ADD	DL	Static	1,4
	LL	Static	1	
	SD	Static	1,4	
	EX	Static	1	
DCON4	ADD	DL	Static	1,4
	LL	Static	1	
	SD	Static	1,4	
	EX	Static	-1	
DCON5	ADD	DL	Static	1,4
	LL	Static	1	
	SD	Static	1,4	
	EY	Static	1	
DCON6	ADD	DL	Static	1,4
	LL	Static	1	
	SD	Static	1,4	
	EY	Static	-1	
DCON7	ADD	DL	Static	1,4
	SD	Static	1,4	
	EX	Static	1	
DCON8	ADD	DL	Static	1,4
	SD	Static	1,4	
	EX	Static	-1	
DCON9	ADD	DL	Static	1,4
	SD	Static	1,4	
	EY	Static	1	

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BEA M FORCE ENVELO PES

STORY	BEAM	ITEM	P	V2	V3	T	M2	M3
LT19	B6	Min Value	0	-214,76	0	-0,556	0	-376,998
	Min Case	DCON9	DCON6	DCON9	DCON5	DCON9	DCON5	
	Max Value	0	221,16	0	0,156	0	265,371	
	Max Case	DCON9	DCON5	SNI2002	SNI2002	SNI2002	EY	

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MOD E SHAPE S

STORY	DIAPHRAGM	MODE	UX	UY	UZ	RX	RY	RZ
ATAP1	D1	Mode 1	0	-9,51E-03	0	0	0	-1,40E-05
ATAP1	D1	Mode 2	2,38E-04	-3,24E-04	0	0	0	5,21E-04
ATAP1	D1	Mode 3	-8,83E-03	-8,05E-06	0	0	0	1,44E-05
ATAP1	D1	Mode 4	1,75E-06	1,03E-02	0	0	0	1,86E-05
ATAP1	D1	Mode 5	8,24E-04	-3,76E-04	0	0	0	5,69E-04
ATAP1	D1	Mode 6	-9,73E-03	-2,99E-05	0	0	0	4,79E-05
ATAP1	D1	Mode 7	1,29E-06	1,06E-02	0	0	0	1,92E-05
ATAP1	D1	Mode 8	9,96E-03	-5,43E-06	0	0	0	4,70E-06
ATAP1	D1	Mode 9	-1,03E-04	-4,00E-04	0	0	0	5,93E-04

ATAP2	D1	Mode 1	-3,02E-06	-9,36E-03	0	0	0	-1,39E-05
ATAP2	D1	Mode 2	3,23E-04	-3,19E-04	0	0	0	5,16E-04
ATAP2	D1	Mode 3	-8,79E-03	-7,90E-06	0	0	0	1,42E-05
ATAP2	D1	Mode 4	4,61E-06	9,51E-03	0	0	0	1,76E-05
ATAP2	D1	Mode 5	8,78E-04	-3,43E-04	0	0	0	5,34E-04
ATAP2	D1	Mode 6	-9,30E-03	-2,73E-05	0	0	0	4,50E-05
ATAP2	D1	Mode 7	3,97E-06	8,88E-03	0	0	0	1,67E-05
ATAP2	D1	Mode 8	8,72E-03	-4,46E-06	0	0	0	3,93E-06
ATAP2	D1	Mode 9	-6,72E-06	-3,26E-04	0	0	0	5,08E-04
LT19	D1	Mode 1	0	-9,18E-03	0	0	0	-1,37E-05
LT19	D1	Mode 2	2,21E-04	-2,58E-04	0	0	0	5,07E-04
LT19	D1	Mode 3	-8,71E-03	-6,25E-06	0	0	0	1,40E-05
LT19	D1	Mode 4	1,03E-06	8,47E-03	0	0	0	1,61E-05
LT19	D1	Mode 5	7,14E-04	-2,49E-04	0	0	0	4,83E-04
LT19	D1	Mode 6	-8,62E-03	-1,96E-05	0	0	0	4,08E-05
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LT19	D1	Mode 9	-9,22E-05	-1,87E-04	0	0	0	3,94E-04
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LT18	D1	Mode 2	2,17E-04	-2,51E-04	0	0	0	4,96E-04
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L17D1	Mode 1	0	-8,68E-03	0	0	0	0	-1,30E-05
L17D1	Mode 2	2,13E-04	-2,43E-04	0	0	0	0	4,82E-04
L17D1	Mode 3	-8,40E-03	-5,86E-06	0	0	0	0	1,33E-05
L17D1	Mode 4	0	5,41E-03	0	0	0	0	1,12E-05
L17D1	Mode 5	5,01E-04	-1,46E-04	0	0	0	0	3,20E-04
L17D1	Mode 6	-6,08E-03	-1,14E-05	0	0	0	0	2,73E-05
L17D1	Mode 7	0	-5,09E-05	0	0	0	0	2,51E-06
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LT14	D1	Mode 1	0	-7,60E-03	0	0	0	-1,16E-05
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LT9D1	Mode 7	0	-1,46E-03	0	0	0	0	-3,04E-06
LT9D1	Mode 8	-2,25E-03	0	0	0	0	0	0
LT9D1	Mode 9	3,79E-05	3,69E-05	0	0	0	0	-9,96E-05
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LT8D1	Mode 8	8,27E-04	0	0	0	0	0	1,79E-06
LT8D1	Mode 9	1,74E-05	-3,85E-05	0	0	0	0	6,97E-05
LT7D1	Mode 1	0	-4,33E-03	0	0	0	0	-6,78E-06
LT7D1	Mode 2	1,38E-04	-9,89E-05	0	0	0	0	2,46E-04
LT7D1	Mode 3	-4,81E-03	-2,31E-06	0	0	0	0	6,79E-06
LT7D1	Mode 4	-1,75E-06	-8,41E-03	0	0	0	0	-1,37E-05
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LT7D1	Mode 6	8,30E-03	1,84E-05	0	0	0	0	-3,94E-05
LT7D1	Mode 7	1,62E-06	4,39E-03	0	0	0	0	7,34E-06
LT7D1	Mode 8	3,80E-03	-1,81E-06	0	0	0	0	3,26E-06

LT7D1	Mode 9	-5,68E-06	-1,10E-04	0	0	2,31E-04
LT6D1	Mode 1	0	-3,81E-03	0	0	-5,98E-06
LT6D1	Mode 2	1,24E-04	-8,68E-05	0	0	2,17E-04
LT6D1	Mode 3	-4,32E-03	-2,03E-06	0	0	5,98E-06
LT6D1	Mode 4	-1,72E-06	-8,31E-03	0	0	-1,36E-05
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LT6D1	Mode 7	2,16E-06	6,72E-03	0	0	1,14E-05
LT6D1	Mode 8	6,32E-03	-2,88E-06	0	0	4,33E-06
LT6D1	Mode 9	-2,89E-05	-1,71E-04	0	0	3,65E-04
LT5D1	Mode 1	0	-3,29E-03	0	0	-5,16E-06
LT5D1	Mode 2	1,09E-04	-7,47E-05	0	0	1,87E-04
LT5D1	Mode 3	-3,80E-03	-1,74E-06	0	0	5,17E-06
LT5D1	Mode 4	-1,61E-06	-7,89E-03	0	0	-1,30E-05
LT5D1	Mode 5	-6,83E-04	2,22E-04	0	0	-4,37E-04
LT5D1	Mode 6	8,02E-03	1,72E-05	0	0	-3,74E-05
LT5D1	Mode 7	2,39E-06	8,28E-03	0	0	1,41E-05
LT5D1	Mode 8	8,06E-03	-3,67E-06	0	0	4,85E-06
LT5D1	Mode 9	-4,95E-05	-2,15E-04	0	0	4,56E-04
LT4D1	Mode 1	0	-2,76E-03	0	0	-4,34E-06
LT4D1	Mode 2	9,32E-05	-6,27E-05	0	0	1,57E-04
LT4D1	Mode 3	-3,26E-03	-1,46E-06	0	0	4,35E-06
LT4D1	Mode 4	-1,42E-06	-7,14E-03	0	0	-1,17E-05
LT4D1	Mode 5	-6,23E-04	2,02E-04	0	0	-3,96E-04
LT4D1	Mode 6	7,35E-03	1,57E-05	0	0	-3,40E-05
LT4D1	Mode 7	2,27E-06	8,86E-03	0	0	1,49E-05
LT4D1	Mode 8	8,80E-03	-4,07E-06	0	0	4,76E-06
LT4D1	Mode 9	-6,48E-05	-2,37E-04	0	0	4,91E-04
LT3D1	Mode 1	0	-2,22E-03	0	0	-3,49E-06
LT3D1	Mode 2	5,41E-05	-6,86E-05	0	0	1,27E-04
LT3D1	Mode 3	-2,67E-03	-1,68E-06	0	0	3,50E-06
LT3D1	Mode 4	0	-6,05E-03	0	0	-9,86E-06
LT3D1	Mode 5	-4,73E-04	2,21E-04	0	0	-3,36E-04
LT3D1	Mode 6	6,30E-03	1,76E-05	0	0	-2,89E-05
LT3D1	Mode 7	0	8,32E-03	0	0	1,37E-05
LT3D1	Mode 8	8,37E-03	-4,55E-06	0	0	4,11E-06
LT3D1	Mode 9	-1,51E-04	-2,98E-04	0	0	4,63E-04
LT2D1	Mode 1	0	-1,59E-03	0	0	-2,50E-06
LT2D1	Mode 2	4,08E-05	-6,31E-05	0	0	9,06E-05
LT2D1	Mode 3	-1,94E-03	-1,59E-06	0	0	2,51E-06
LT2D1	Mode 4	0	-4,50E-03	0	0	-7,29E-06
LT2D1	Mode 5	-3,57E-04	2,04E-04	0	0	-2,50E-04
LT2D1	Mode 6	4,72E-03	1,65E-05	0	0	-2,15E-05
LT2D1	Mode 7	0	6,62E-03	0	0	1,07E-05
LT2D1	Mode 8	6,71E-03	-4,16E-06	0	0	3,06E-06
LT2D1	Mode 9	-1,20E-04	-3,01E-04	0	0	3,69E-04
LT1D1	Mode 1	0	-8,87E-04	0	0	-1,40E-06
LT1D1	Mode 2	2,31E-05	-3,53E-05	0	0	5,07E-05
LT1D1	Mode 3	-1,10E-03	0	0	0	1,40E-06
LT1D1	Mode 4	0	-2,58E-03	0	0	-4,16E-06
LT1D1	Mode 5	-2,06E-04	1,18E-04	0	0	-1,43E-04
LT1D1	Mode 6	2,72E-03	9,55E-06	0	0	-1,24E-05
LT1D1	Mode 7	0	3,95E-03	0	0	6,27E-06
LT1D1	Mode 8	4,01E-03	-2,50E-06	0	0	1,75E-06
LT1D1	Mode 9	-7,37E-05	-1,82E-04	0	0	2,21E-04

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MOD AL PERI ODS AND FREQUEN CIES  
MODE PERI OD FREQUENCY CI RCULAR FREQ

NUMBE	R	(TIM	E)	(C	YCLES/TIME)	(RA	DIANS/TIME)
Mode	1	6,164	50	0,16222	1,01925		
Mode	2	5,543	45	0,18039	1,13344		
Mode	3	5,466	2	0,18295	1,1495		
Mode	4	2,048	96	0,48805	3,06653		
Mode	5	1,851	11	0,54022	3,39428		
Mode	6	1,837	48	0,54422	3,41946		
Mode	7	1,111	93	0,89934	5,6507		
Mode	8	1,048	26	0,95397	5,99394		
Mode	9	1,014	64	0,98557	6,19255		

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MOD	AL PART	ICIPATI	ON FACTO	R S
MODE	UX	UY	UZ	RX RY RZ
Mode	1	0 ,0138	142,15	78 0,0000 -5888,527 0,5797 71,086
Mode	02-Mar	,9972	3,78	96 0,0000 -161,4303 -162,1491 -2569,8923
Mode	3	145 ,0453	0,09	09 0,0000 -3,8889 5852,518 -69,6237
Mode	4	0 ,0060	49,87	90 0,0000 444,758 -0,1607 25,1393
Mode	5	3 ,5374	-1,60	66 0,0000 -12,8754 -66,277 877,3822
Mode	Jun-42	,5679	-0,12	68 0,0000 -1,0105 775,6903 75,076
Mode	7	-0 ,0030	-24,77	78 0,0000 95,8056 -0,0115 -11,8889
Mode	Agust-22	,3846	0,01	30 0,0000 -0,0407 -92,9884 -3,3801
Mode	9	0 ,2620	0,84	46 0,0000 -2,8574 0,8836 -447,2283

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MOD	AL PART		ICIPATI		NG MASS		RATIOS			
MODE	R	X-TRANS	Y-TRANS	Z-TRANS	RX-ROTN	RY-R	OTN	R	Z-ROTN	
NUMBE	%MASS	%MASS	SS <SUM>	%MASS	SS <SUM>	%MASS	SS <SUM>	%	MASS	<SUM>
Mode < 0>	1	0, 00 < 0>	84,	01 < 84>	0,	00 < 0>	9	9,30 < 99>	0,00 < 0>	0,06
Mode < 84>	2	0, 07 < 0>	0,	06 < 84>	0,	00 < 0>	0,07 < 99>	0,08 < 0>	84,37 < 84>	
Mode < 85>	3	87, 46 < 88>	0,	00 < 84>	0,	00 < 0>	0,00 < 99>	98,08 < 98>		0,06
Mode < 94>	4	0, 00 < 88>	10,	34 < 94>	0,	00 < 0>	0,57 < 100>		0,00 < 98>	0,01
Mode < 94>	5	0, 05 < 88>	0,	01 < 94>	0,	00 < 0>	0,00 < 100>		0,01 < 98>	9,83
Mode < 94>	6	7, 53 < 95>	0,	00 < 94>	0,	00 < 0>	0,00 < 100>		1,72 < 100>	0,07
Mode < 94>	7	0, 00 < 95>	2,	55 < 97>	0,	00 < 0>	0,03 < 100>		0,00 < 100>	0,00
Mode < 94>	8	2, 08 < 97>	0,	00 < 97>	0,	00 < 0>	0,00 < 100>		0,02 < 100>	0,00
Mode < 97>	9	0, 00 < 97>	0,	00 < 97>	0,	00 < 0>	0,00 < 100>		0,00 < 100>	2,56

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MOD	AL LOAD	PARTIC	IPATION	RATIOS
(STAT	IC AND DYNAMIC	RATIOS ARE IN	PERCENT)	
TYPE	LOAD	ACCEL	STORY	L INK DO F STATIC DYNAMIC
Load	DL			0,0002 0
Load	LL			0,0013 0
Load	SD			0,0018 0



Load	EX	99,9988	99,9201
Load	EY	99,9996	99,963
Accel	UX	99,9734	97,1965
Accel	UY	99,9742	96,9827
Accel	UZ	0	0
Accel	RX	99,9996	99,963
Accel	RY	99,9988	99,9201
Accel	RZ	98,7943	96,9661

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RES	PONSE S		PECTRUM		ACCELER		ATIONS		
(IN R	ESPONSE SPECTR		UM LOCAL COORDI		NATES)				
SPEC	MODE	PERI	OD	DAMP-RATIO	SPEC-FACTOR	U1	U2	U3	
SNI20	02	Mode 1	6,1645	05	0,050000	1	1,0791	1,0791	1,0791
SNI20	02	Mode 2	5,5434	46	0,050000	1	1,0791	1,0791	1,0791
SNI20	02	Mode 3	5,466	22	0,050000	1	1,0791	1,0791	1,0791
SNI20	02	Mode 4	2,0489	58	0,050000	1	1,58407	1,58407	1,58407
SNI20	02	Mode 5	1,8511	12	0,050000	1	1,758867	1,758867	1,758867
SNI20	02	Mode 6	1,8374	80	0,050000	1	1,771704	1,771704	1,771704
SNI20	02	Mode 7	1,1119	30	0,050000	1	2,94742	2,94742	2,94742
SNI20	02	Mode 8	1,0482	55	0,050000	1	3,112326	3,112326	3,112326
SNI20	02	Mode 9	1,0146	37	0,050000	1	3,199393	3,199393	3,199393

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RES	PONSE S		PECTRUM		MODAL A		MPLITU		DES
(IN R	ESPONSE SPECTR		UM LOCAL COORDI		NATES)				
SPEC	MODE	PERI	OD	U1	U2	U3			
SNI20	02	Mode 1	6,1645	05	-0,014331	-147,662069	0		
SNI20	02	Mode 2	5,5434	46	3,357540	-3,183115	0		
SNI20	02	Mode 3	5,466	22	-118,453636	-0,074238	0		
SNI20	02	Mode 4	2,0489	58	-0,001008	-8,402305	0		
SNI20	02	Mode 5	1,8511	12	-0,540038	0,245269	0		
SNI20	02	Mode 6	1,8374	80	6,449998	0,019219	0		
SNI20	02	Mode 7	1,1119	30	0,000277	2,287173	0		
SNI20	02	Mode 8	1,0482	55	1,939136	-0,001128	0		
SNI20	02	Mode 9	1,0146	37	-0,021859	-0,070468	0		

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RES	PONSE S		PECTRUM		BASE RE		ACTION		S
(IN R	ESPONSE SPECTR		UM LOCAL COORDI		NATES)				
SPEC	MODE	DIR	F1	F2	F3	M1	M2	M3	
SNI20	02	Mode 1	U1	0	2,12	0	-87,67	0,009	63,756
SNI20	02	Mode 2	U1	17,24	-16,35	0	696,316	699,417	-561,427
SNI20	02	Mode 3	U1	22702,26	14,23	0	-608,691	916026,845	-
SNI20	02	Mode 4	U1	0	0,47	0	4,215	-0,002	14,28
SNI20	02	Mode 5	U1	22,01	-10	0	-80,108	-412,365	-532,841

SNI20	02	Mode 6	U1	3210,38	9,57	0	76,212	-58500,861	-22097,047
SNI20	02	Mode 7	U1	0	0,22	0	-0,848	0	6,565
SNI20	02	Mode 8	U1	1559,49	-0,91	0	2,833	6478,319	-10999,361
SNI20	02	Mode 9	U1	0,22	0,71	0	-2,395	0,741	9,585

SNI20	02	Mode 1	U2	2,12	21807,35	0	-903314,527	88,932	
				656910,995					
SNI20	02	Mode 2	U2	-16,35	15,5	0	-660,142	-663,082	532,261
SNI20	02	Mode 3	U2	14,23	0,01	0	-0,381	574,095	-99,191
SNI20	02	Mode 4	U2	0,47	3941,03	0	35141,155	-12,696	119051,883
SNI20	02	Mode 5	U2	-10	4,54	0	36,383	187,283	242
SNI20	02	Mode 6	U2	9,57	0,03	0	0,227	-174,315	-65,843
SNI20	02	Mode 7	U2	0,22	1809,53	0	-6996,726	0,84	54178,263
SNI20	02	Mode 8	U2	-0,91	0	0	-0,002	-3,77	6,401
SNI20	02	Mode 9	U2	0,71	2,28	0	-7,721	2,388	30,901

SNI20	02	Mode 1	U3	0	0	0	0	0	0
SNI20	02	Mode 2	U3	0	0	0	0	0	0
SNI20	02	Mode 3	U3	0	0	0	0	0	0
SNI20	02	Mode 4	U3	0	0	0	0	0	0
SNI20	02	Mode 5	U3	0	0	0	0	0	0
SNI20	02	Mode 6	U3	0	0	0	0	0	0
SNI20	02	Mode 7	U3	0	0	0	0	0	0
SNI20	02	Mode 8	U3	0	0	0	0	0	0
SNI20	02	Mode 9	U3	0	0	0	0	0	0

SNI20	02	All	All	23031,49	22277,96	0	904117,035	918242,043	
				690152,269					

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CEN	TERS OF	CUMULA	TIVE MAS	S & CENTERS OF RIGIDITY
Y				

STORY	DIAPHRAGM	/-----	#NAME?	S-----	//#NAME?	RIGIDITY--	/
LEVEL	NAME	MA	SS ORDNATE-X	ORDINATE-Y		ORDINATE-X	ORDINATE-Y

ATAP1	D1	3,628E+	02	30,000	7	30	7
ATAP2	D1	1,504E+	03	30,000	6,872	30	7
LT19	D1	2,695E+	03	30,047	6,941	30	7
LT18	D1	3,887E+	03	30,065	6,967	30	7
L17D1	5,078E+	03	30,075	6,981	30	7	
LT16	D1	6,269E+	03	30,081	6,99	30	7
LT15	D1	7,460E+	03	30,085	6,996	30	7
LT14	D1	8,651E+	03	30,088	7	30	7
LT13	D1	9,868E+	03	30,099	6,996	30	7
LT12	D1	1,110E+	04	30,108	6,992	30	7
LT11	D1	1,234E+	04	30,115	6,989	30	7
LT10	D1	1,357E+	04	30,121	6,987	30	7
LT9D1	1,480E+	04	30,126	6,985	30	7	
LT8D1	1,604E+	04	30,130	6,984	30	7	
LT7D1	1,727E+	04	30,133	6,982	30	7	
LT6D1	1,851E+	04	30,136	6,981	30	7	
LT5D1	1,974E+	04	30,139	6,98	30	7	
LT4D1	2,098E+	04	30,141	6,979	30	7	
LT3D1	2,204E+	04	30,136	6,987	30	7	
LT2D1	2,302E+	04	30,125	6,993	30	7	
LT1D1	2,399E+	04	30,115	6,998	30	7	

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STO	RY FORC	E ENVEL	OPES
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STORY	LOCATION	ITEM P	VX	VY	T	MX	MY
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ATAP1	Top	Min Value	0	-721,18	-721,18	-21635,545	0	-160036,8	
	Min Case	EX	EX	DCON5	DCON5	EX	DCON5		
	Max Value	5334,56	721,18	721,18	21805,011	37341,92	0		
	Max Case	DCON5	DCON4	DCON6	SNI2002	DCON5	SNI2002		
ATAP1	Bottom	Min Value	0	-721,18	-721,18	-21635,545	0	-171877,154	
	Min Case	EX	EX	DCON5	DCON5	EX	DCON5		
	Max Value	5657,12	721,18	721,18	21805,011	41763,394	1977,205		
	Max Case	DCON5	DCON4	DCON6	SNI2002	DCON5	SNI2002		
ATAP2	Top	Min Value	0	-2823,59	-2823,59	-84707,649	0	-664338,614	
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	22072,5	2823,59	2823,59	85435,916	153918,348	1977,205		
	Max Case	DCON6	DCON4	DCON6	SNI2002	DCON5	SNI2002		
ATAP2	Bottom	Min Value	0	-2823,59	-2823,59	-84707,649	0	-697969,059	
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	22911,16	2823,59	2823,59	85435,916	168259,705	9814,38		
	Max Case	DCON6	DCON4	DCON6	SNI2002	DCON5	SNI2002		
LT19	Top	Min Value	0	-4837,49	-4837,49	-145337,942	0	-1185714,079	
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	39109,74	4837,49	4837,49	145504,155	282104,793	9814,38		
	Max Case	DCON3	DCON4	DCON6	SNI2002	DCON5	SNI2002		
LT19	Bottom	Min Value	0	-4837,49	-4837,49	-145337,942	0	-1225386,216	
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	39948,4	4837,49	4837,49	145504,155	302487,842	23274,59		
	Max Case	DCON3	DCON4	DCON6	SNI2002	DCON5	SNI2002		
LT18	Top	Min Value	0	-6748,11	-6748,11	-202858,989	0	-1713131,236	
	Min Case	EX	EX	DCON5	DCON5	EX	DCON3		
	Max Value	56146,98	6748,11	6748,11	202858,989	416332,93	23274,59		
	Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002		
LT18	Bottom	Min Value	0	-6748,11	-6748,11	-202858,989	0	-1758535,235	
	Min Case	EX	EX	DCON5	DCON5	EX	DCON3		
	Max Value	56985,64	6748,11	6748,11	202858,989	442447,841	41956,714		
	Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002		
L17 Top	Min Value	0	-8555,45	-8555,45	-257270,791	0	-2246280,255		
	Min Case	EX	EX	DCON5	DCON5	EX	DCON3		
	Max Value	73184,22	8555,45	8555,45	257270,791	556292,929	41956,714		
	Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002		
L17 Bottom	Min Value	0	-8555,45	-8555,45	-257270,791	0	-2297106,286		
	Min Case	EX	EX	DCON5	DCON5	EX	DCON3		
	Max Value	74022,88	8555,45	8555,45	257270,791	587829,872	65399,282		
	Max Case	DCON5	DCON4	DCON6	DCON6	DCON6	DCON5	SNI2002	
2784851,306	LT16	Top	Min Value	0	-10259,52	-10259,52	-308573,346	0	-
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	90221,46	10259,52	10259,52	308573,346	701674,96	65399,282		
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002		
2840789,537	LT16	Bottom	Min Value	0	-10259,52	-10259,52	-308573,346	0	-
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	91060,12	10259,52	10259,52	308573,346	738324,103	93152,796		
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002		
3328534,56	LT15	Top	Min Value	0	-11860,31	-11860,31	-356766,656	0	-
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3		
	Max Value	107258,7	11860,31	11860,31	356766,656	852169,191	93152,796		
	Max Case	DCON3	DCON4	DCON6	DCON6	DCON5	SNI2002		

3389275,16	LT15	Bottom	Min Value 0	-11860,31	-11860,31	-356766,656	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	108097,36	11860,31	11860,31	356766,656		893620,705	
124836,217		Max Case	DCON3	DCON4	DCON6	DCON6	DCON5	SNI2002	
3877020,18	LT14	Top	Min Value 0	-13357,82	-13357,82	-401850,72	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	124295,94	13357,82	13357,82	401850,72	1007465,793	124836,217	
		Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002	
3942253,32	LT14	Bottom	Min Value 0	-13357,82	-13357,82	-401850,72	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	125134,6	13357,82	13357,82	401850,72	1053409,848	160162,645	
		Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002	
4436400,84	LT13	Top	Min Value 0	-14782,82	-14782,82	-444858,464	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	141502,18	14782,82	14782,82	444858,464		1167358,936	
160162,645		Max Case	DCON3	DCON4	DCON6	DCON6	DCON5	SNI2002	
199004,032	LT13	Bottom	Min Value 0	-14782,82	-14782,82	-444858,464	0	-4520061,3	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	142812,58	14782,82	14782,82	444858,464		1220880,189	
		Max Case	DCON3	DCON4	DCON6	DCON6	DCON5	SNI2002	
5014208,82	LT12	Top	Min Value 0	-16120,53	-16120,53	-485228,453	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	159180,17	16120,53	16120,53	485228,453		1334829,277	
199004,032		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002	
5101882,39	LT12	Bottom	Min Value 0	-16120,53	-16120,53	-485228,453	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	160490,57	16120,53	16120,53	485228,453		1392363,656	241316,16
		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002	
5596029,91	LT11	Top	Min Value 0	-17351,22	-17351,22	-522368,842	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	176858,15	17351,22	17351,22	522368,842		1506312,744	241316,16
		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002	
5687395,57	LT11	Bottom	Min Value 0	-17351,22	-17351,22	-522368,842	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	178168,55	17351,22	17351,22	522368,842		1567539,197	
287002,721		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002	
6181543,09	LT10	Top	Min Value 0	-18474,89	-18474,89	-556279,632	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	
		Max Value	194536,13	18474,89	18474,89	556279,632		1681488,285	
287002,721		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002	
6276279,77	LT10	Bottom	Min Value 0	-18474,89	-18474,89	-556279,632	0	-	
		Min Case	EY	EX	DCON5	DCON5	EX	DCON3	

335931,101		Max Value	195846,53	18474,89	18474,89	556279,632	1746085,764
		Max Case	DCON6	DCON4	DCON6	DCON6	DCON5 SNI2002
LT9Top	Min Value	0	-19491,55	-19491,55	-586960,823	0	-6770427,29
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	212214,12	19491,55	19491,55	586960,823	1860034,852	335931,101
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT9Bottom	Min Value	0	-19491,55	-19491,55	-586960,823	0	-6868213,94
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	213524,52	19491,55	19491,55	586960,823	1927682,306	387921,964
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT8Top	Min Value	0	-20401,19	-20401,19	-614412,415	0	-7362361,46
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	229892,1	20401,19	20401,19	614412,415	2041631,394	387921,964
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT8Bottom	Min Value	0	-20401,19	-20401,19	-614412,415	0	-7462877,04
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	231202,5	20401,19	20401,19	614412,415	2112007,773	442756,325
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT7Top	Min Value	0	-21203,82	-21203,82	-638634,408	0	-7957024,56
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	247570,09	21203,82	21203,82	638634,408	2225956,861	442756,325
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT7Bottom	Min Value	0	-21203,82	-21203,82	-638634,408	0	-8059948,01
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	248880,49	21203,82	21203,82	638634,408	2298741,115	500194,138
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT6Top	Min Value	0	-21899,43	-21899,43	-659626,802	0	-8554095,53
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	265248,07	21899,43	21899,43	659626,802	2412690,203	500194,138
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT6Bottom	Min Value	0	-21899,43	-21899,43	-659626,802	0	-8659105,81
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	266558,47	21899,43	21899,43	659626,802	2487561,282	559994,558
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT5Top	Min Value	0	-22488,02	-22488,02	-677389,597	0	-9153253,33
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	282926,05	22488,02	22488,02	677389,597	2601510,37	559994,558
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT5Bottom	Min Value	0	-22488,02	-22488,02	-677389,597	0	-9260029,39
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	284236,45	22488,02	22488,02	677389,597	2678147,224	621928,261
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT4Top	Min Value	0	-22969,59	-22969,59	-691922,793	0	-9754176,91
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	300604,04	22969,59	22969,59	691922,793	2792096,312	621928,261
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT4Bottom	Min Value	0	-22969,59	-22969,59	-691922,793	0	-9862397,69
	Min Case	EY	EX	DCON5	DCON5	EX	DCON3
	Max Value	301914,44	22969,59	22969,59	691922,793	2870177,891	685774,778
	Max Case	DCON6	DCON4	DCON6	DCON6	DCON5	SNI2002
LT3Top	Min Value	0	-23293,97	-23293,97	-701665,527	0	-10265743,61
	Min Case	EX	EX	DCON5	DCON5	EX	DCON3
	Max Value	315341,48	23293,97	23293,97	701665,527	2966306,051	685774,778
	Max Case	DCON5	DCON4	DCON6	DCON6	DCON5	SNI2002

LT3Bottom	Min Value 0	-23293,97	-23293,97	-701665,527	0	-10413316,68
	Min Case EX	EX	DCON5	DCON5 EX	DCON3	
	Max Value	317542,95	23293,97	23293,97	701665,527	3063245,266 762042,973
	Max Case	DCON5	DCON4	DCON6	DCON6 DCON5	SNI2002
LT2Top	Min Value 0	-23490,7	-23490,7	-707543,875	0	-10759113,36
	Min Case EX	EX	DCON5	DCON5 EX	DCON3	
	Max Value	329125,21	23490,7	23490,7	707543,875	3146058,898 762042,973
	Max Case	DCON6	DCON4	DCON6	DCON6 DCON5	SNI2002
LT2Bottom	Min Value 0	-23490,7	-23490,7	-707543,875	0	-10907374,98
	Min Case EX	EX	DCON5	DCON5 EX	DCON3	
	Max Value	331326,68	23490,7	23490,7	707543,875	3243686,664 839676,027
	Max Case	DCON6	DCON4	DCON6	DCON6 DCON5	SNI2002
LT1Top	Min Value 0	-23589,07	-23589,07	-710483,05	0	-11253171,66
	Min Case EY	EX	DCON5	DCON5 EX	DCON3	
	Max Value	342908,93	23589,07	23589,07	710483,05 3326500,296	839676,027
	Max Case	DCON6	DCON4	DCON6	DCON6 DCON5	SNI2002
LT1Bottom	Min Value 0	-23589,07	-23589,07	-710483,05	0	-11401777,56
	Min Case EY	EX	DCON5	DCON5 EX	DCON3	
	Max Value	345110,41	23589,07	23589,07	710483,05 3424472,338	918242,052
	Max Case	DCON6	DCON4	DCON6	DCON6 DCON5	SNI2002
ETABS 13	v9.2.0 File:	MDL REF BARU	U nits:KN-m	Agus	tus 23, 2011	14:16 PAGE
TRI	BUTARY	AREA AN	D REDUCE	D LIVELOAD	FACTORS	
STORY LEVEL	OBJECT LABEL	OBJECT TYPE	TRIBUTARY AREA	REDUCED LL FACTOR		
LT19	B6	Beam	11,88	1		

Momen rencana balok arah X

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-	Mlap	
STORY2	B10	Tu.ki	32,022	6,276	37,049	0	-2,861	-0,243	105,236	80,0727	85,9405	81,9053	84,1079	181,728			
		Lap	-37,33	-5,51	-40,469	0	0,425	-0,311	-116,1584	-91,5453	-92,2087	-92,0605	-91,6935		90,864		
		Tu.ka	-113,71	-18,311	-128,14	0	3,71	-0,379	-363,456	-282,9745	-290,1671	-285,8368	-287,3048			363,456	
STORY1	B10	Tu.ki	29,904	22,925	35,905	0	-2,411	-0,25	120,8428	96,8138	101,7858	98,3265	100,2731	228,964			
		Lap	-37,361	-36,93	-41,526	0	-0,628	-0,2	-155,5908	-131,3632	-129,9872	-131,0636	-130,2868		114,48		
		Tu.ka	-111,66	-97,8	-129,11	0	1,154	-0,149	-457,9276	-379,3511	-381,5697	-380,2632	-380,6576			457,928	
STORY2	10	Tu.ki	-82,627	-25,949	-66,686	0	34,164	-1,023	-236,9888	-163,1201	-230,8343	-187,751	-206,2034	150,966			
		Lap	-10,471	4,712	-12,38	0	-4,495	-0,031	-26,7188	-23,7951	-14,7865	-20,6703	-17,9113		59,247		
		Tu.ka	46,458	32,515	13,333	0	-43,154	0,962	112,543	65,2352	150,966	96,1164	120,0848			236,989	
STORY1	10	Tu.ki	-59,165	-55,769	-46,445	0	33,622	-0,52	-212,2328	-150,8998	-217,8318	-174,7992	-193,9324	108,916			
		Lap	-8,937	-13,501	-6,092	0	1,508	-0,097	-36,6728	-31,5387	-34,4965	-32,6622	-33,373		54,458		
		Tu.ka	26,064	25,907	5,668	0	-30,606	0,326	71,434	37,525	98,5414	59,1774	76,889			217,832	
ATAP	11	Tu.ki	-51,31	-3,82	-11,306	0	7,944	-4,844	-84,2456	-70,9712	-83,9528	-79,9728	-75,0012	72,2982			
		Lap	49,55	5,773	10,771	0	-2,723	-1,861	83,6212	73,8773	80,4399	74,4807	79,8365		83,621		
		Tu.ka	-82,57	-13,843	-18,063	0	-9,98	7,315	-144,5964	-141,5441	-125,9731	-129,4376	-138,0796			144,596	
STORY19	11	Tu.ki	-82,724	-54,937	-27,894	0	60,298	-35,879	-209,8236	-143,5529	-242,6215	-210,8768	-175,2976	248,759			
		Lap	91,117	96,813	34,354	0	-29,418	15,901	280,4824	235,2223	284,5177	266,9456	252,7944		284,52		
		Tu.ka	-134,34	-183,07	-52,913	0	-81,631	59,737	-465,5552	-497,5173	-370,0975	-398,5597	-469,0551			497,517	
STORY18	11	Tu.ki	-81,368	-54,425	-29,002	0	68,923	-38,971	-209,3548	-134,7219	-249,1853	-210,2477	-173,6595	239,811			
		Lap	91,847	85,161	34,297	0	-31,356	16,153	267,2848	220,2165	273,1967	253,4588	239,9544		273,2		
		Tu.ka	-134,05	-163,48	-52,26	0	-88,73	61,353	-440,6532	-479,6213	-338,9731	-374,5632	-444,0312			479,621	
STORY17	11	Tu.ki	-83,045	-54,537	-29,385	0	75,272	-38,955	-212,1144	-130,8979	-258,0689	-210,8568	-178,11	241,062			
		Lap	91,787	85,758	34,372	0	-34,571	16,274	268,0492	217,7372	277,1148	253,3287	241,5233		277,11		
		Tu.ka	-131,91	-161,14	-51,514	0	-97,488	61,805	-434,086	-482,1241	-324,2311	-370,619	-435,7362			482,124	
STORY16	11	Tu.ki	-85,875	-57,976	-30,381	0	83,978	-39,913	-221,2308	-130,9981	-275,0063	-217,7218	-188,2826	240,899			
		Lap	91,991	85,946	34,436	0	-38,293	16,521	268,622	214,6237	281,2971	252,9935	242,9273		281,3		
		Tu.ka	-128,25	-156,99	-50,303	0	-108,11	63,014	-422,7728	-481,7978	-303,3842	-362,0103	-423,1717			481,798	
STORY15	11	Tu.ki	-87,221	-60,155	-30,716	0	90,894	-39,85	-225,9968	-128,6282	-286,5062	-220,149	-194,9854	240,068			
		Lap	92,675	86,596	34,684	0	-42,438	16,836	270,6196	212,422	287,1964	253,9138	245,7046		287,2		



STORY7	12	Tu ki	-13,379	-16,794	-8,364	0	103,93	30,048	-49,59	68,3738	-157,517	16,6557	-105,7989	78,7585	
	12	Lap	-6,701	-7,542	-3,231	0	29,871	10,084	-22,2612	12,5736	-53,2188	-1,2773	-39,3679	39,379	
STORY6	12	Tu ka	-11,032	-11,101	-3,142	0	-44,188	-9,88	-31,5868	-76,8536	17,4504	-52,838	-6,5652		157,517
	12	Tu ki	-13,6	-16,305	-8,222	0	102,44	28,745	-49,0412	66,9545	-155,1705	15,3687	-103,5847	77,5853	
	12	Lap	-5,224	-6,069	-2,748	0	29,612	9,843	-17,9484	16,2653	-48,8645	2,427	-35,0262	38,793	
	12	Tu ka	-7,857	-8,646	-2,317	0	-43,215	-9,059	-23,5108	-68,0533	23,8121	-44,1441	-0,0971		155,171
STORY5	12	Tu ki	-12,425	-14,712	-7,697	0	99,151	27,228	-44,8796	67,058	-147,5808	16,7119	-97,2347	73,7904	
	12	Lap	-4,711	-5,296	-2,518	0	28,243	9,243	-16,0372	16,4895	-45,5423	3,1895	-32,3423	36,895	
	12	Tu ka	-8,006	-8,691	-2,383	0	-42,664	-8,743	-23,8492	-67,7063	22,8675	-43,9616	-0,8772		147,581
STORY4	12	Tu ki	-21,155	-23,58	-14,111	0	208,35	54,341	-76,2596	156,8563	-292,4423	49,0521	-184,6381	156,856	
	12	Lap	-16,083	-17,832	-8,994	0	87,894	27,914	-55,0884	46,5762	-145,9602	4,5902	-103,9742	73,111	
	12	Tu ka	-27,03	-24,896	-8,92	0	-32,559	1,487	-76,5832	-103,3441	-39,1183	-79,5119	-62,9505		292,442

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tun- puan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-	Mlap	M-
STORY3	B12	Tu ki	-16,857	-19,098	-16,909	0	178,31	40,768	-70,2004	130,4824	-250,5924	34,2051	-154,3151	130,482			
		Lap	-13,658	-12,806	-9,19	0	77,119	23,116	-46,4608	43,107	-125,0006	5,3049	-87,1985		62,648		
	12	Tu ka	-26,479	-24,018	-9,539	0	-24,07	5,464	-75,8588	-92,5662	-47,7046	-71,8924	-68,3784				250,592
		Tu ki	-7,949	-3,206	-11,989	0	61,666	12,173	-32,5684	39,9429	-90,6929	5,2978	-56,0478	45,3465			
STORY2	12	Lap	-3,042	-2,984	-2,429	0	19,408	5,543	-11,1176	11,4107	-30,7311	1,7052	-21,0256		22,673		
		Tu ka	-9,919	-4,595	-11,202	0	-22,85	-1,087	-35,34	-51,7949	-5,4427	-36,5608	-20,6768				90,699
	12	Tu ki	-7,3	-2,189	-10,554	0	40,545	5,914	-28,2732	20,3784	-64,26	-3,8633	-40,0183	32,13			
		Lap	-1,856	-1,656	-1,591	0	12,583	3,461	-6,784	7,7919	-19,4507	1,4065	-15,0653		16,065		
ATAP	12	Tu ka	-8,155	-3,036	-10,96	0	-15,379	1,009	-30,9632	-39,4653	-9,3129	-27,9939	-20,7845				-64,26
		Tu ki	-32,215	-24,91	-10,462	0	8,611	3,338	-85,2892	-69,4396	-88,5944	-73,1907	-84,8333	64,114			
	13	Lap	4,178	0,756	1,217	0	-0,832	-0,457	7,868	6,1687	8,1069	6,4312	7,8444		22,149		
		Tu ka	14,421	23,991	6,499	0	-10,275	-4,152	58,4928	41,0728	64,114	45,3589	59,8279				88,5944
STORY19	13	Tu ki	-86,634	-81,768	-30,371	0	22,376	8,734	-250,676	-207,4572	-257,4496	-217,0066	-247,9002	170,56			
		Lap	1,142	2,911	1,865	0	-1,222	-2,181	7,8476	4,8523	8,6049	4,181	9,2762		64,362		
	13	Tu ka	56,318	46,768	18,108	0	-24,82	-13,096	152,676	113,0624	170,56	121,2692	162,3532				-257,45
STORY18	13	Tu ki	-86,322	-83,57	-30,858	0	24,794	9,702	-253,2432	-207,0238	-262,433	-217,5882	-251,8686	186,284			



STORY16	12	Tuki	-14,924	-22,345	-10,42	0	56,442	25,291	-61,3948	8,8865	-119,1721	-12,9192	-97,3664	59,5861	
	12	Lap	-15,706	-16,525	-6,412	0	17,881	7,837	-48,9364	-24,8511	-63,3273	-31,8679	-58,3105		29,793
	12	Tuka	-27,496	-23,517	-7,447	0	-20,68	-9,578	-73,1308	-92,216	-45,1092	-84,4446	-52,8806		119,172
STORY15	12	Tuki	-15,448	-21,41	-10,447	0	63,931	26,329	-62,1448	15,9531	-127,7063	-10,3683	-101,3849	63,8532	
	12	Lap	-14,318	-15,298	-5,945	0	19,578	8,268	-45,0512	-19,4258	-63,5476	-27,3428	-55,6256		31,927
	12	Tuka	-24,197	-20,999	-6,487	0	-24,775	-9,793	-64,6144	-88,4351	-33,0093	-77,9477	-43,4967		127,706
STORY14	12	Tuki	-14,654	-21,141	-9,96	0	69,124	27,489	-58,89	24,4567	-130,2847	-4,6878	-101,1402	65,1424	
	12	Lap	-13,505	-14,638	-5,701	0	21,652	8,752	-42,8932	-15,195	-63,7502	-24,225	-54,7202		32,571
	12	Tuka	-23,364	-20,948	-6,486	0	-25,82	-9,986	-63,552	-88,4762	-30,8446	-77,3924	-41,9284		130,285

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tun- pus	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-	Mlap	M-
STORY13	12	Tuki	-13,346	-19,577	-9,364	0	74,55	28,679	-54,49	34,2821	-132,0253	2,1724	-99,9156	66,0127			
	12	Lap	-13,147	-14,205	-5,552	0	23,322	9,118	-41,7056	-12,311	-64,4378	-22,2398	-54,509		33,006		
	12	Tuka	-23,957	-21,644	-6,784	0	-27,906	-10,403	-65,5756	-92,5321	-30,4783	-80,28	-42,7304				132,025
STORY12	12	Tuki	-13,165	-19,051	-9,164	0	81,463	29,652	-53,3216	42,5354	-138,1818	6,2677	-101,9141	69,0909			
	12	Lap	-12,292	-13,302	-5,228	0	24,924	9,492	-39,0776	-8,1692	-63,7134	-18,9716	-32,91		34,545		
	12	Tuka	-22,428	-20,365	-6,335	0	-31,615	-10,668	-61,4876	-92,502	-22,8712	-77,8391	-37,5341				138,182
STORY11	12	Tuki	-12,892	-18,402	-8,918	0	87,786	30,432	-51,8216	50,4448	-143,3864	10,297	-103,2386	71,6932			
	12	Lap	-11,444	-12,408	-4,913	0	26,463	9,798	-36,4832	-4,133	-62,9378	-15,7985	-51,2723		35,847		
	12	Tuka	-21,005	-19,276	-5,95	0	-34,859	-10,837	-57,7972	-92,3373	-16,1171	-75,5219	-32,9325				143,386
STORY10	12	Tuki	-12,78	-17,862	-8,715	0	93,506	30,941	-50,7144	57,3029	-148,2737	13,5074	-104,4782	74,1369			
	12	Lap	-10,464	-11,387	-4,555	0	27,806	10,029	-33,5092	0,0385	-61,5909	-12,4054	-49,147		37,068		
	12	Tuka	-19,158	-17,724	-5,439	0	-37,895	-10,884	-52,9608	-90,8576	-8,5372	-71,9499	-27,4449				148,274
STORY9	12	Tuki	-12,803	-17,401	-8,545	0	98,303	31,096	-49,9168	62,842	-152,4216	15,7971	-105,3767	76,2108			
	12	Lap	-9,364	-10,252	-4,161	0	28,885	10,167	-30,1968	4,2349	-59,6353	-8,8677	-46,5327		38,105		
	12	Tuka	-16,934	-15,914	-4,82	0	-40,533	-10,762	-47,1296	-87,9992	-0,476	-67,1595	-21,3157				152,422
STORY8	12	Tuki	-12,969	-17,016	-8,412	0	101,82	30,815	-49,4412	66,6685	-155,4565	16,9664	-105,7544	77,7283			
	12	Lap	-8,137	-8,996	-3,73	0	29,623	10,194	-26,5276	8,3916	-56,9708	-5,2087	-43,3705		38,864		
	12	Tuka	-14,314	-13,789	-4,09	0	-42,573	-10,428	-40,2676	-83,515	7,8878	-61,0135	-14,6137				155,457

STORY17	13	Lap	1,769	3,814	2,172	0	-1,878	-2,2	10,1748	6,3336	11,4096	6,1082	11,635	65,608	
	13	TuKa	57,26	54,653	19,209	0	-28,549	-14,102	165,03	120,725	186,2842	130,8379	176,1713		262,433
	13	TuKi	-82,243	-80,42	-29,666	0	25,534	10,267	-242,6612	-196,2475	-253,4757	-206,9344	-242,7888	177,78	
	13	Lap	1,813	3,607	2,147	0	-2,313	-2,242	9,9392	5,6654	11,6366	5,7151	11,5869	63,369	
STORY16	13	TuKa	53,268	51,089	17,967	0	-30,16	-14,75	153,9756	108,6104	177,7804	119,3974	166,9934		253,476
	13	TuKi	-77,342	-76,783	-28,236	0	26,642	10,933	-230,1276	-183,2641	-243,1079	-194,2604	-232,1116	170,083	
	13	Lap	2,086	3,837	2,223	0	-2,941	-2,332	10,6644	5,69	12,9712	6,1163	12,5449	60,777	
	13	TuKa	48,913	47,913	16,69	0	-32,523	-15,596	142,8952	95,6794	170,083	107,5283	158,2341		243,108
STORY15	13	TuKi	-70,449	-71,165	-26,099	0	27,448	11,527	-211,6952	-165,1297	-226,9419	-176,2744	-215,7972	152,763	
	13	Lap	1,809	3,493	2,091	0	-3,232	-2,362	9,708	4,5128	12,394	5,1218	11,785	56,735	
	13	TuKa	41,467	41,607	14,287	0	-33,912	-16,251	122,548	75,1885	152,7631	87,5512	140,4004		226,942
	13	TuKi	-67,381	-69,28	-25,412	0	31,489	12,633	-204,6524	-154,1263	-224,6841	-167,3255	-211,4849	170,198	
STORY14	13	Lap	3,866	5,369	2,816	0	-5,027	-2,5	15,5876	8,121	19,675	9,8899	17,9061	56,171	
	13	TuKa	44,199	45,39	15,858	0	-41,543	-17,634	132,8796	76,5316	170,198	93,2679	153,4617		224,684

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tun- puan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			Momen rencana balok arah X (injutatan)						Momen rencana balok arah Y (injutatan)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	MΔp	M-	
STORY13	13	TuKi	-66,738	-68,632	-25,237	0	33,763	13,235	-202,8232	-149,9475	-225,4145	-164,3171	-211,0449	182,657			
	13	Lap	5,415	6,851	3,37	0	-6,607	-2,808	20,1112	10,6398	25,5386	13,2991	22,8793	56,354			
	13	TuKa	46,653	47,708	16,79	0	-46,978	-18,851	140,0972	77,3899	182,6565	97,0788	162,9676	-225,415			
STORY12	13	TuKi	-63,082	-65,066	-23,982	0	34,502	13,642	-192,1488	-139,165	-216,3542	-153,767	-201,7522	173,271			
	13	Lap	5,178	6,585	3,265	0	-7,136	-2,864	19,3396	9,3854	25,3758	12,3758	22,3854	54,089			
	13	TuKa	42,524	43,609	15,326	0	-48,774	-19,37	127,8812	64,1006	173,2706	84,6834	152,6878	-216,354			
STORY11	13	TuKi	-59,192	-61,324	-22,689	0	35,256	14,023	-180,9216	-127,8453	-206,7711	-142,7084	-191,908	165,632			
	13	Lap	5,303	6,668	3,292	0	-7,808	-2,949	19,6324	8,9645	26,3499	12,3658	22,9486	51,693			
	13	TuKa	38,883	40,033	14,085	0	-50,872	-19,92	117,2352	51,9362	165,6322	73,6026	143,9658	-206,771			
STORY10	13	TuKi	-54,57	-56,918	-21,176	0	35,773	14,339	-167,6792	-114,8989	-195,0483	-129,9027	-180,0445	155,466			
	13	Lap	5,394	6,714	3,303	0	-8,396	-2,997	19,8144	8,5375	27,1277	12,3168	23,3484	48,762			
	13	TuKa	34,444	35,728	12,595	0	-52,564	-20,334	104,3584	38,1372	155,4656	60,6982	132,9046	-195,048			
STORY9	13	TuKi	-49,203	-51,874	-19,443	0	35,994	14,584	-152,4012	-100,3662	-181,1046	-115,3532	-166,1176	143,066			
	13	Lap	5,522	6,788	3,324	0	-8,9	-3,01	20,0904	8,293	27,899	12,416	23,776	45,276			
	13	TuKa	29,332	30,823	10,905	0	-53,794	-20,604	89,634	23,1158	143,0662	46,3488	119,8332	-181,105			



STORY8	13	TuKi	-43.027	-46.113	-17.474	0	35,854	14,751	-134,9264	-84,1627	-164,7213	-98,9348	-149,9492	128,343	
	13	Lap	5,713	6,916	3,367	0	-9,313	-2,985	20,542	8,3133	28,7303	12,7429	24,3007	41,18	
	13	TuKa	23,538	25,318	9,021	0	-54,479	-20,72	73,0608	6,9532	128,3432	30,5845	104,7119		-164,721
STORY7	13	TuKi	-35,695	-39,333	-15,145	0	35,146	14,796	-114,2656	-65,5938	-144,7634	-79,8388	-130,5184	108,656	
	13	Lap	5,776	6,912	3,355	0	-9,423	-2,869	20,5936	8,2969	28,8643	12,8847	24,2765	36,191	
	13	TuKa	16,333	18,53	6,668	0	-53,992	-20,534	52,5044	-11,6486	108,6558	11,772	85,2352		-144,763
STORY6	13	TuKi	-28,701	-32,941	-13,038	0	35,049	14,856	-94,8312	-47,5026	-126,5142	-61,6377	-112,3791	95,8587	
	13	Lap	6,154	7,097	3,427	0	-9,001	-2,411	21,3844	9,6039	29,0525	14,2169	24,4395	31,629	
	13	TuKa	11,764	14,391	5,517	0	-53,052	-19,679	40,2132	-22,0527	95,8587	1,3084	72,4976		-126,514
STORY5	13	TuKi	-27,693	-31,183	-12,654	0	34,389	14,428	-90,8976	-44,5878	-122,0226	-58,5605	-108,0499	93,5569	
	13	Lap	6,522	7,482	3,545	0	-9,113	-2,28	22,4768	10,5528	30,1468	15,3359	25,3637	30,506	
	13	TuKa	11,493	13,403	5,369	0	-52,616	-18,989	38,4656	-23,0685	93,5569	0,4704	70,018		-122,023
STORY4	13	TuKi	-43,851	-43,259	-17,793	0	38,276	22,739	-133,0008	-77,2273	-167,4227	-88,1032	-156,5468	201,707	
	13	Lap	11,409	9,439	5,179	0	-35,96	-9,082	33,304	-8,488	68,8812	10,3266	50,0666	68,881	
	13	TuKa	25,159	29,394	13,777	0	-110,2	-40,903	87,5068	-43,2253	201,7065	5,2791	153,2021		-167,423

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)	
			MD	MSD	ML	MR	ME <sub>x</sub>	ME <sub>y</sub>	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5		M+	M-
STORY3	13	TuKi	-37,289	-32,44	-16,873	0	26,041	20,356	-110,6716	-68,4	-132,6956	-72,3795	-128,7161	157,237		
	13	Lap	21,613	23,77	12,463	0	-58	-18,966	74,4004	3,2328	130,6124	30,5566	103,2886	130,61		
	13	TuKa	14,985	24,023	6,458	0	-93,588	-34,604	57,1424	-50,7016	157,2368	-9,4128	115,948			-132,696
STORY2	13	TuKi	-19,308	-10,602	-21,815	0	15,789	9,23	-70,796	-39,149	-76,265	-43,7403	-71,6737	38,1325		
	13	Lap	8,91	1,694	16,958	0	-7,446	-1,156	39,8576	21,899	37,4666	26,323	33,0456	39,858		
	13	TuKa	0,833	7,395	-10,225	0	-30,681	-11,482	-6,4864	-34,477	33,7742	-21,0377	20,3349			-76,265
STORY1	13	TuKi	-15,198	-6,681	-19,882	0	9,889	6,646	-58,066	-34,254	-58,0196	-36,5241	-55,7495	29,033		
	13	Lap	8,822	1,703	16,75	0	-51	-0,456	39,43	24,1492	34,6108	27,414	31,346	39,43		
	13	TuKa	-3,454	3,491	-12,572	0	-20,088	-7,517	-20,0708	-34,8707	9,8155	-26,071	1,0158			-58,066
ATAP	14	TuKi	-62,806	-14,348	-15,434	0	8,601	0,965	-117,2792	-99,1283	-116,9093	-104,4735	-111,5641	58,6396		
	14	Lap	51,09	6,328	11,359	0	-1,011	-0,898	87,076	78,9802	81,541	79,0593	81,4619	87,076		
	14	TuKa	-48,283	2,77	-9,645	0	-8,376	0,202	-70,0476	-72,576	-55,9452	-66,5714	-61,9498			-117,279
STORY19	14	TuKi	-135,24	-133,38	-49,36	0	54,459	2,81	-401,3236	-316,4056	-427,0096	-352,5599	-390,8553	213,505		
	14	Lap	97,19	112,149	37,154	0	-1,942	-5,083	310,6532	284,8939	291,8277	282,6952	294,0764	310,65		
	14	TuKa	-42,406	-58,789	-16,665	0	-50,126	0,015	-148,098	-188,2205	-87,9775	-153,1218	-123,0762			-427,01
STORY18	14	TuKi	-140,33	-134,6	-51,968	0	61,919	3,544	-415,0732	-318,9102	-444,8746	-359,7727	-404,0121	222,437		

	14	Lap	96,724	99,829	36,818	0	-2,381	-5,108	294,7724	268,7682	276,595	266,8593	278,5039		294,77	
	14	Tu.kk	-38,915	-41,765	-15,08	0	-57,634	-0,051	-120,944	-169,5453	-54,2467	-129,2372	-94,5548			-444,875
STORY17	14	Tu.kk	-137,94	-131,5	-51,113	0	64,76	3,349	-405,1136	-308,6811	-440,2105	-351,6688	-397,2228	220,105		
	14	Lap	96,336	99,641	36,745	0	-2,564	-5,167	293,9644	267,8033	276,0315	265,9812	277,8336		293,96	
	14	Tu.kk	-41,348	-43,809	-15,884	0	-60,18	-0,029	-127,6028	-178,2611	-57,8837	-136,1554	-99,9894			-440,211
STORY16	14	Tu.kk	-136,61	-130,51	-50,728	0	69,022	3,268	-401,6992	-301,26	-441,2648	-347,2878	-395,237	220,632		
	14	Lap	95,693	98,979	36,547	0	-2,82	-5,233	292,0816	265,7635	274,5433	264,0744	276,2324		292,08	
	14	Tu.kk	-43,249	-45,252	-16,487	0	-64,06	0,06	-132,5804	-186,7302	-58,6462	-141,8462	-103,5302			-441,265
STORY15	14	Tu.kk	-131,61	-125,63	-48,981	0	70,855	2,704	-387,0516	-285,9968	-429,3292	-333,7025	-381,6235	214,665		
	14	Lap	95,309	98,509	36,481	0	-3,066	-5,324	290,9512	264,3994	273,7238	262,8188	275,3064		290,95	
	14	Tu.kk	-47,372	-48,828	-17,945	0	-65,73	0,211	-144,152	-199,0517	-67,7183	-152,893	-113,877			-429,329
STORY14	14	Tu.kk	-140,41	-134,87	-52,274	0	88,917	4,668	-413,9732	-292,2914	-472,9262	-351,2657	-413,9519	236,463		
	14	Lap	92,003	95,597	35,24	0	-3,857	-5,068	281,504	254,9826	265,7374	254,1349	266,5851		281,5	
	14	Tu.kk	-33,034	-35,146	-12,593	0	-83,492	-0,258	-101,9648	-177,9784	-10,8396	-119,7146	-69,1034			-472,926

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tum- puan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)					Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-
STORY13	14	Tuki	-147,11	-141,64	-54,82	0	100,78	5,71	-434,2048	-298,8238	-503,8018	-365,37	-437,2556	251,901		
	14	Lap	90,713	94,332	34,738	0	-4,405	-4,893	277,6348	250,9191	262,6649	250,5775	261,0065		277,63	
	14	Tuka	-30,183	-32,246	-11,441	0	-95,264	-0,511	-93,2204	-181,7731	9,0615	-115,446	-57,2656			-503,802
	14	Tuki	-142,36	-137	-53,187	0	103,93	5,398	-420,3312	-282,8726	-493,9654	-351,8429	-424,9951	246,983		
STORY12	14	Lap	90,647	94,064	34,739	0	-4,63	-4,888	277,2356	250,2958	262,4886	250,1152	262,6692		277,24	
	14	Tuka	-34,246	-35,887	-12,855	0	-98,089	-0,46	-104,7276	-195,2416	1,2124	-126,9013	-67,1279			-493,965
	14	Tuki	-139,34	-134,01	-52,182	0	107,81	5,261	-411,5064	-270,8109	-489,5835	-342,5938	-417,8006	244,792		
	14	Lap	90,283	93,528	34,629	0	-4,874	-4,814	275,9796	248,884	261,5204	248,926	261,4784		275,98	
STORY10	14	Tuka	-37,432	-38,735	-13,942	0	-101,68	-0,429	-113,6956	-207,1371	-3,5237	-136,2628	-74,398			-489,584
	14	Tuki	-135,75	-130,41	-50,976	0	110,76	5,028	-400,9524	-258,1004	-482,6332	-332,1114	-408,6222	241,317		
	14	Lap	89,912	92,962	34,525	0	-5,086	-4,7	274,6888	247,4778	260,4698	247,748	260,1996		274,69	
	14	Tuka	-41,006	-41,987	-15,183	0	-104,38	-0,391	-123,8844	-219,2689	-10,2803	-146,4787	-83,0705			-482,633
STORY9	14	Tuki	-131,93	-126,55	-49,692	0	112,69	4,745	-389,676	-245,7433	-473,9783	-321,3076	-398,414	236,989		
	14	Lap	89,487	92,326	34,409	0	-5,255	-4,535	273,23	245,9691	259,2001	246,4731	258,6961		273,23	
STORY8	14	Tuka	-44,838	-45,492	-16,514	0	-106,12	-0,357	-134,8184	-231,1331	-18,6869	-157,1018	-92,7182			-473,978
	14	Tuki	-127,97	-122,52	-48,378	0	113,48	4,45	-377,9916	-234,1538	-463,7758	-310,472	-387,4576	231,888		
	14	Lap	88,988	91,599	34,273	0	-5,369	-4,31	271,5412	244,3154	257,6394	245,0567	256,8981		271,54	





	15	Lap	83,077	82,395	31,823	0	-31,133	1,327	249,4832	199,6545	261,1243	222,3765	238,4023	261,12	
	15	TuKa	-82,714	-80,419	-31,103	0	-103,05	0,188	-245,5244	-329,8522	-123,873	-237,5884	-196,1368		-408,832
STORY6	15	TuLi	-101,32	-99,775	-38,749	0	107,45	-0,817	-303,3148	-172,8595	-387,2713	-248,6471	-311,4837	193,636	
	15	Lap	82,19	81,32	31,485	0	-32,317	1,23	246,588	195,549	259,845	219,1719	236,2221	259,85	
	15	TuKa	-77,195	-75,363	-28,921	0	-104,55	-0,708	-229,3432	-316,755	-107,2262	-244,0642	-179,917		-387,271
STORY5	15	TuLi	-100,9	-98,907	-38,743	0	106,49	-0,576	-301,7608	-172,1958	-384,8342	-247,1434	-309,8866	192,417	
	15	Lap	81,94	80,842	31,36	0	-32,31	1,144	245,5144	194,7316	258,6652	218,1494	235,2474	258,67	
	15	TuKa	-78,706	-76,745	-29,329	0	-103,64	-1,366	-233,4676	-319,915	-111,8254	-248,3267	-183,4137		-384,834
STORY4	15	TuLi	-94,276	-93,236	-35,857	0	97,327	-0,302	-282,3856	-163,635	-358,1078	-231,9753	-289,7675	179,054	
	15	Lap	77,467	76,083	29,001	0	-29,256	1,853	230,6616	184,5609	241,9611	206,3372	220,1848	241,96	
	15	TuKa	-75,284	-74,064	-26,902	0	-94,821	-2,37	-222,2608	-301,6516	-110,5876	-236,9359	-175,3033		-358,108

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tun- puan	Momen hasil analisis (kNm)				Kombinasi Momen (kNm)								Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M+	M+	M-
STORY3	15	TuLi	-90,479	-49,237	-59,049	0	81,189	1,066	-262,1376	-145,1994	-308,217	-201,2855	-252,1309	154,109			
	15	Lap	84,692	53,625	56,176	0	1,083	1,032	255,862	223,549	220,7638	223,5133	220,7995		255,86		
	15	TuKa	-78,011	-39,608	-50,996	0	-81,405	-2,314	-222,7364	-274,238	-110,0396	-218,8743	-165,4033				-308,217
STORY2	15	TuLi	-93,705	-16,45	-126,54	0	62,57	1,63	-334,6452	-195,664	-321,782	-238,322	-279,124	167,323			
	15	Lap	88,426	12,963	122,84	0	0,727	0,01	318,2108	245,3368	243,7768	244,7349	244,2787		318,21		
	15	TuKa	-83,59	-8,555	-117,99	0	-62,901	-1,542	-299,35	-291,9226	-165,1954	-248,9713	-208,1467				-334,645
STORY1	15	TuLi	-92,749	-14,434	-126,05	0	41,699	1,13	-330,2996	-212,6316	-296,7076	-241,0299	-268,3093	165,15			
	15	Lap	88,669	12,329	123,492	0	0,47	0,084	318,7848	245,1848	244,1944	244,9146	244,4646		318,78		
	15	TuKa	-85,261	-9,635	-119,55	0	-41,856	-1,212	-305,1488	-275,6408	-191,2016	-247,19	-219,6524				-330,3
ATAP	16	TuLi	-56,508	8,697	-5,945	0	8,948	1,223	-42,8852	-30,0033	-48,6331	-35,4108	-43,2256	50,6744			
	16	Lap	37,533	0,766	7,548	0	-2,019	0,143	58,0356	51,5307	55,4829	53,0441	53,9695		58,036		
	16	TuKa	-53,763	-12,501	-13,645	0	-6,208	-1,255	-101,3488	-99,7463	-86,5773	-96,2792	-90,0444				-101,349
STORY19	16	TuLi	-2,455	-17,824	-0,181	0	50,808	10,666	-24,6244	29,492	-78,5236	1,3926	-50,4242	246,812			
	16	Lap	68,922	83,971	27,264	0	-9,326	0,479	227,094	201,5533	219,9179	208,4168	213,0544		227,09		
	16	TuKa	-156,48	-157,84	-59,15	0	-53,734	-11,875	-471,818	-493,6245	-379,0315	-464,3232	-408,3328				-493,625
STORY18	16	TuLi	-0,054	-0,71	1,329	0	58,182	11,164	1,2096	61,9434	-61,119	29,0308	-28,2064	249,004			
	16	Lap	69,255	71,691	27,078	0	-9,262	0,41	212,46	187,0742	205,3522	193,8446	198,5818		212,46		
	16	TuKa	-158,81	-153,99	-60,639	0	-58,359	-12,161	-472,3836	-498,0075	-373,9929	-465,6689	-406,3315				-498,008
STORY17	16	TuLi	-3,563	-4,207	0,02	0	61,279	11,449	-9,292	55,4097	-74,0177	20,5287	-39,1367	246,693			
	16	Lap	69,638	72,366	27,245	0	-9,631	-0,509	213,9968	187,8661	207,4335	194,2515	201,0481		214		



STORY16	16	TuKa	-156,35	-151,03	-59,629	0	-61,228	-12,262	-464,2564	-493,3856	-363,5724	-459,1094	-397,8486				
	16	TuKi	-7,36	-7,427	-1,284	0	65,843	11,838	-19,7988	50,366	-88,4228	12,5625	-50,6193	245,223			
	16	Lap	70,187	72,62	27,405	0	-9,985	-0,639	215,2164	188,5967	208,9501	195,1389	202,4079	215,22			
	16	TuKa	-153,82	-148,64	-58,685	0	-65,079	-12,445	-456,8444	-490,4459	-352,8209	-453,6021	-389,6647				-490,446
STORY15	16	TuKi	-14,081	-13,49	-3,723	0	68,481	12,106	-39,042	35,3046	-108,921	-4,1579	-69,4585	239,705			
	16	Lap	71,108	73,423	27,707	0	-10,557	-0,787	217,7684	190,3511	211,9373	197,1901	205,0983	217,77			
	16	TuKa	-148,88	-143,79	-56,732	0	-67,703	-12,566	-441,9764	-479,41	-336,4644	-440,8141	-375,0603				-479,41
	16	TuKi	-4,861	-4,524	0,064	0	85,669	12,866	-11,1596	78,3308	-100,7268	27,3687	-49,7647	245,56			
STORY14	16	Lap	71,241	73,292	27,651	0	-10,048	-0,771	217,8812	190,8113	211,3699	197,3052	204,876	217,68			
	16	TuKa	-148,34	-143,38	-57,055	0	-80,154	-12,817	-441,3532	-491,1193	-323,1211	-443,9834	-370,257				-491,119

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)								Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb 1	Comb 2	Comb 3	Comb 4	Comb 5	M+	M-	Mlap	M-	M-
STORY13	16	TuKi	-4,089	-3,612	0,576	0	97,617	13,538	-8,3196	93,0132	-110,3436	34,1579	-51,4883	253,126				
	16	Lap	71,12	73,202	27,609	0	-10,036	-0,857	217,3608	190,5023	211,0885	196,9276	204,6632	217,36				
	16	TuKa	-150,34	-145,47	-58,194	0	-89,16	-13,099	-448,0788	-506,2521	-320,0727	-453,0094	-373,3154					-506,252
	16	TuKi	-9,898	-9,101	-1,606	0	101,38	13,72	-25,3684	81,0932	-129,9028	19,7298	-68,5394	247,869				
STORY12	16	Lap	71,602	73,612	27,8	0	-10,515	-1,018	218,7368	191,2364	212,8772	197,8843	206,2293	218,74				
	16	TuKa	-145,2	-140,53	-56,254	0	-97,699	-13,049	-432,8776	-495,7389	-302,5115	-439,9839	-358,2665					-495,739
	16	TuKi	-15,301	-14,191	-3,599	0	105,78	13,845	-41,1488	70,9441	-148,9229	6,5896	-84,5684	243,703				
	16	Lap	72,14	74,045	27,991	0	-10,834	-1,159	220,3076	192,2313	214,5947	199,0038	207,8222	220,21				
STORY10	16	TuKa	-140,8	-136,25	-54,626	0	-96,448	-12,91	-419,8604	-487,4058	-286,7638	-428,9292	-345,2404					-487,406
	16	TuKi	-21,617	-20,151	-5,943	0	109,28	13,814	-59,6304	57,3546	-169,4838	-9,4681	-107,6611	238,179				
	16	Lap	72,849	74,601	28,231	0	-11,099	-1,286	222,1096	193,6862	216,6558	200,5553	209,7867	222,11				
	16	TuKa	-135,75	-131,28	-52,714	0	-99,419	-12,631	-404,7772	-476,3571	-269,9405	-415,6055	-330,6921					-476,357
STORY9	16	TuKi	-28,597	-26,743	-8,543	0	111,74	13,61	-80,0768	40,873	-190,775	-27,8187	-122,0833	231,602				
	16	Lap	73,733	75,282	28,52	0	-11,26	-1,392	224,45	195,6604	219,0156	202,568	213,108	224,45				
	16	TuKa	-130,34	-125,89	-50,632	0	-101,44	-12,194	-388,4896	-463,2046	-253,0162	-400,7352	-315,4856					-463,205
	16	TuKi	-36,142	-33,866	-11,367	0	113,03	13,224	-102,1968	21,6176	-212,3708	-48,2445	-142,5087	224,12				
STORY8	16	Lap	74,811	76,1	28,862	0	-11,276	-1,469	227,2724	198,2385	221,6719	205,1034	214,807	227,27				
	16	TuKa	-124,74	-120,24	-48,436	0	-102,35	-11,591	-371,4736	-448,2403	-236,5837	-384,7083	-300,1157					-448,24
	16	TuKi	-44,841	-42,107	-14,675	0	111,59	12,541	-127,8176	-3,6633	-234,3619	-72,9955	-165,0297	214,199				
	16	Lap	76,216	77,167	29,308	0	-11,196	-1,514	230,9524	201,7174	225,0178	208,4948	218,2404	230,95				
STORY7	16	TuKa	-118,33	-113,69	-45,822	0	-100,92	-10,763	-351,7392	-428,3979	-220,0941	-365,2859	-283,2061					-428,398

STORY6	16	Tuki	-45,312	-42,663	-14,965	0	11,2	11,758	-129,514	-4,8126	-236,2574	-75,1185	-165,9515	199,719	
	16	Lap	77,571	78,126	29,674	0	-10,643	-1,462	234,3148	205,4288	227,592	211,8555	221,1653	234,31	
	16	Tuka	-107,82	-103,45	-41,857	0	-101,1	-9,834	-320,5024	-399,4374	-191,339	-335,5519	-255,2245	-399,437	
STORY5	16	Tuki	-49,412	-46,667	-16,612	0	110,86	11,361	-141,874	-17,6405	-246,1731	-87,2884	-176,5252	194,86	
	16	Lap	77,897	78,399	29,841	0	-9,96	-1,422	235,3008	207,0096	227,7828	212,9862	221,8062	235,3	
	16	Tuka	-104,88	-100,55	-40,786	0	-99,554	-9,525	-311,7808	-389,7207	-184,8977	-326,7004	-247,918	-389,721	
STORY4	16	Tuki	-53,187	-52,295	-17,994	0	101,34	10,534	-155,3688	-40,0752	-249,0696	-103,6373	-185,5075	181,182	
	16	Lap	76,041	78,94	28,514	0	-8,971	-1,06	231,5996	205,2022	223,7802	210,7399	218,2425	231,6	
	16	Tuka	-97,523	-94,686	-37,273	0	-91,706	-9,114	-290,3876	-362,364	-173,4836	-304,5496	-231,298	-362,364	

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-	Mlap	M-
STORY3	16	Tuki	-68,11	-27,649	-48,436	0	84,047	8,666	-192,4084	-76,7	-249,9936	-129,4667	-197,2269	164,624			
	16	Lap	84,485	51,147	55,69	0	-4,496	-0,963	251,8624	213,6635	223,2333	216,1366	220,7602		251,86		
	16	Tuka	-98,414	-58,675	-59,547	0	-78,909	-7,62	-283,782	-329,2488	-166,8588	-279,3465	-216,7611		-329,249		
STORY2	16	Tuki	-78,132	-1,141	-120,42	0	63,732	5,679	-287,798	-150,1109	-280,9823	-190,748	-240,3452	168,982			
	16	Lap	87,561	12,179	123,841	0	-1,84	0,588	317,8336	241,8654	245,1926	243,565	243,493		317,83		
	16	Tuka	-96,163	-23,18	-121,72	0	-61,705	-6,332	-337,9636	-328,5362	-201,327	-289,7751	-240,0881		-337,964		
STORY1	16	Tuki	-83,874	-6,341	-121,84	0	43,04	3,48	-303,1956	-186,01	-274,178	-213,702	-246,486	158,362			
	16	Lap	87,473	11,688	122,757	0	-1,998	0,216	315,4044	239,817	243,6834	241,3668	242,1336		315,4		
	16	Tuka	-89,527	-16,908	-118,13	0	-40,313	-3,719	-316,7236	-287,2767	-204,4193	-261,6609	-230,0351		-316,724		
ATAP	17	Tuki	-7,122	1,788	-0,699	0	-0,354	-1,042	-7,5192	-7,7664	-6,4332	-8,248	-5,9516	7,3498			
	17	Lap	4,403	0,784	1,173	0	0,037	-0,002	8,1012	7,4338	7,361	7,4065	7,3883		8,1012		
	17	Tuka	-6,577	-2,33	-2,597	0	0,428	1,038	-14,6996	-12,456	-13,9348	-12,029	-14,3618		-14,6996		
STORY19	17	Tuki	-35,338	-48,423	-11,411	0	-17,943	-9,664	-118,7708	-132,7664	-91,082	-126,9711	-96,8773	66,3832			
	17	Lap	-5,028	-9,127	-2,509	0	-6,014	-1,447	-21,0004	-25,9431	-13,0469	-22,7462	-16,2438		33,192		
	17	Tuka	-14,243	-4,556	-7,487	0	5,914	6,771	-34,538	-22,1005	-37,9911	-21,5006	-38,591		-132,766		
STORY18	17	Tuki	-31,929	-34,841	-8,776	0	-13,696	-9,64	-94,1636	-105,488	-72,312	-102,6488	-75,1512	52,744			
	17	Lap	-3,553	-5,205	-1,608	0	-5,089	-1,17	-13,0834	-17,5576	-6,6776	-14,8143	-9,4209		26,372		
	17	Tuka	-14,703	-6,683	-8,318	0	3,517	7,299	-38,972	-28,2745	-39,6879	-25,6271	-42,3353		-105,488		
STORY17	17	Tuki	-33,721	-37,356	-9,439	0	-9,351	-9,607	-100,3948	-106,9645	-82,4983	-107,1437	-82,3191	53,5719			
	17	Lap	-3,574	-5,771	-1,671	0	-5,538	-1,253	-13,8876	-18,7989	-6,9711	-15,7994	-9,9706		26,786		
	17	Tuka	-12,933	-5,298	-7,782	0	-1,725	7,101	-34,3524	-29,2779	-30,0885	-23,0997	-36,2667		-107,144		
STORY16	17	Tuki	-35,766	-38,528	-9,875	0	-4,487	-9,678	-104,9528	-106,4182	-91,6374	-110,0519	-88,0037	55,026			



	17	Lap	-3,176	-5,297	-1,506	0	-5,75	-1,284	-12,5772	-17,8088	-5,5384	-14,6826	-8,6646	27,513	
	17	TuKa	-10,11	-3,178	-7,016	0	-7,013	7,109	-27,1712	-27,8419	-18,0813	-17,9565	-27,9667		-110,052
STORY15	17	TuKi	-41,126	-42,808	-11,532	0	-0,378	-9,733	-119,172	-115,5507	-108,9549	-122,0992	-102,4064	61,0496	
	17	Lap	-3,642	-5,756	-1,728	0	-6,598	-1,344	-14,0424	-20,0068	-6,0044	-16,329	-9,6822	30,525	
STORY14	17	TuKa	-5,685	0,184	-5,802	0	-12,819	7,046	-15,8844	-23,1084	-1,698	-9,2029	-15,6035		-122,099
	17	TuKi	-27,173	-28,51	-5,326	0	11,989	-8,903	-75,3412	-62,8275	-81,4637	-77,4519	-66,8393	40,7319	
	17	Lap	2,535	0,298	0,756	0	-3,614	-1,016	4,6092	0,2368	8,0744	2,0554	6,2558	20,366	
	17	TuKa	-5,073	-0,253	-6,309	0	-19,218	6,871	-16,4856	-29,8569	4,4565	-11,5946	-13,8058		-81,4637

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	ME <sub>x</sub>	ME <sub>y</sub>	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M <sub>+</sub>	M <sub>-</sub>	M <sub>lap</sub>	M <sub>-</sub>
STORY13	17	TuKi	-19,66	-21,811	-2,359	0	21,452	-8,861	-53,5396	-33,3305	-70,9179	-54,5496	-49,6988	35,459			
	17	Lap	5,221	2,819	1,882	0	-1,782	-0,99	12,6592	9,451	13,609	10,0054	13,0546			17,729	
	17	TuKa	-7,215	-1,909	-7,024	0	-25,016	6,881	-22,1872	-40,9245	4,9789	-18,5966	-17,349				-70,9179
STORY12	17	TuKi	-21,508	-23,92	-3,308	0	27,358	-8,906	-59,8064	-33,1354	-82,5078	-58,5202	-57,123	41,2539			
	17	Lap	4,846	2,454	1,706	0	-1,973	-1,023	11,4896	8,1861	12,7459	8,8511	12,0809			20,627	
	17	TuKa	-6,117	-0,531	-6,427	0	-31,304	6,859	-18,5608	-43,6509	14,8417	-16,9368	-11,8724				-82,5078
STORY11	17	TuKi	-22,536	-24,941	-3,751	0	33,609	-8,854	-62,974	-29,7706	-91,6762	-59,4947	-61,9521	45,8381			
	17	Lap	5,059	2,659	1,787	0	-1,794	-1,037	12,1208	8,9435	13,1537	9,4734	12,6238			22,919	
	17	TuKa	-4,663	0,9	-5,822	0	-37,196	6,779	-13,8308	-45,4999	24,8247	-14,7174	-5,9578				-91,6762
STORY10	17	TuKi	-24,553	-26,639	-4,488	0	39,815	-8,651	-68,5792	-28,6787	-103,1181	-62,6049	-69,1919	51,5591			
	17	Lap	5,152	2,762	1,822	0	-1,649	-1,041	12,412	9,3575	13,2801	9,7831	12,8545			25,78	
	17	TuKa	-2,46	2,804	-5,036	0	-43,113	6,569	-7,6448	-45,7655	36,5191	-10,9881	1,7417				-103,118
STORY9	17	TuKi	-27,351	-28,802	-5,368	0	45,793	-8,239	-75,9724	-29,4303	-116,0729	-67,2527	-78,3505	58,0365			
	17	Lap	5,244	2,875	1,86	0	-1,488	-1,029	12,7188	9,8061	13,3995	10,1274	13,0782			29,018	
	17	TuKa	0,521	5,193	-4,058	0	-48,769	6,181	0,364	-44,1159	49,7135	-5,6509	11,2485				-116,073
STORY8	17	TuKi	-30,922	-31,395	-6,438	0	51,404	-7,544	-85,0812	-32,0776	-130,3592	-73,3412	-89,0956	65,1796			
	17	Lap	5,371	3,038	1,923	0	-1,224	-0,993	13,1676	10,4919	13,5357	10,6536	13,374			32,59	
	17	TuKa	4,346	8,113	-2,863	0	-53,851	5,559	10,37	-40,0955	64,2711	1,4915	22,6841				-130,359
STORY7	17	TuKi	-36,443	-35,517	-8,179	0	55,802	-6,524	-99,4384	-40,6862	-148,3758	-84,3144	-104,7476	81,6718			
	17	Lap	5,18	2,895	1,838	0	-1,413	-0,952	12,6308	9,8294	13,2266	10,1521	12,9039			37,094	
	17	TuKa	9,486	11,948	-1,292	0	-58,629	4,62	23,6536	-32,8142	81,6718	11,4601	37,3975				-148,376
STORY6	17	TuKi	-34,304	-32,237	-7,047	0	60,69	-4,571	-91,1244	-27,5775	-146,2149	-73,2602	-100,5322	94,7799			
	17	Lap	7,154	4,958	2,58	0	-0,85	-0,643	18,6624	16,0715	18,1573	16,2164	18,0124			36,554	

	17	TuKa	13,467	14,515	-0,203	0	-62,39	3,285	33,2536	-28,0291	94,7799	17,9434	48,8074		-146,215
STORY5	17	TuKi	-29,18	-28,349	-5,931	0	65,801	-4,357	-78,5244	-10,4719	-139,4597	-59,5825	-90,3491	91,1791	
	17	Lap	8,278	5,956	2,957	0	0,43	-0,424	21,812	20,3406	19,735	19,7428	20,3328		34,865
	17	TuKa	10,591	12,623	-0,566	0	-64,941	3,509	26,9512	-36,5975	91,1791	11,3175	43,2641		-139,46
STORY4	17	TuKi	-26,495	-27,385	-6,342	0	62,836	-2,888	-74,8032	-9,0284	-132,9676	-55,0352	-86,9608	72,4745	
	17	Lap	6,671	4,461	2,657	0	2,906	-1,727	17,6096	18,4033	13,6275	15,1602	16,8706		33,242
	17	TuKa	4,694	8,668	-0,754	0	-57,024	-0,567	14,828	-41,9137	72,4745	-2,3938	32,9546		-132,968

Momen rencana balok arah X (lanjutan)

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)	
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-	M-
STORY3	17	TuKi	-23,729	-17,839	-10,837	0	62,345	-1,354	-67,2088	1,2322	-122,6454	-43,3571	-78,0561	72,0779		
	17	Lap	9,262	0,919	6,254	0	1,857	-0,36	22,2236	20,2202	16,7222	18,6683	18,2741			30,661
	17	TuKa	3,556	9,091	-1,539	0	-58,631	0,635	12,714	-44,8031	72,0779	-3,3169	30,5917			-122,645
STORY2	17	TuKi	-20,175	-10,534	-20,86	0	53,082	-0,517	-70,2268	-4,7839	-110,6377	-42,3032	-73,1184	57,2485		
	17	Lap	9,707	0,778	12,533	0	0,811	-0,303	32,6348	25,8351	24,3949	25,0553	25,1747			32,635
	17	TuKa	0,891	7,113	-3,842	0	-51,459	-0,089	3,4576	-45,7229	57,2485	-9,7639	21,3895			-110,638
STORY1	17	TuKi	-19,112	-7,722	-20,891	0	39,355	0,144	-65,6264	-13,6936	-92,49	-41,1413	-65,0423	46,245		
	17	Lap	9,61	0,68	12,508	0	1,047	-0,183	32,3608	25,8481	23,8639	24,9871	24,7249			32,361
	17	TuKa	-0,364	4,106	-3,862	0	-37,26	-0,511	-1,6888	-36,7849	38,0417	-11,0606	12,3174			-92,49

Catatan : 1. Comb.1 = 1,2MD+1,2MSD+1,6ML+0,5R

2. Comb.2 = 1,2MD+1,2MSD+1ML+1Ex+0,3Ey

3. Comb.3 = 1,2MD+1,2MSD+1ML-1Ex+0,3Ey

4. Comb.4 = 1,2MD+1,2MSD+1ML-0,3Ex+1Ey

5. Comb.5 = 1,2MD+1,2MSD+1ML-0,3Ex-1Ey



Momen rencana balok arah Y

Lantai	Balok	Tun- puan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)			
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-		
STORY4	21	Tuki	-15,855	1,861	-33,952	0	-2,324	22,756	-71,116	-46,242	-55,2476	-28,686	-72,8036	36,4018				
	21	Lap	8,389	1,755	23,744	0	-0,323	3,445	50,1632	36,6273	35,2063	39,2649	32,5687	50,163				
	21	Tuka	-56,262	-4,688	64,763	0	1,679	-15,865	30,4808	-11,4575	-5,2965	-23,7383	6,9843			-72,8036		
	21	Tuki	-33,313	0,954	-15,438	0	-3,466	34,677	-63,5316	-47,3317	-61,2059	-20,6316	-87,906	234,697				
STORY3	21	Lap	11,856	1,731	-99,408	0	-0,333	3,234	-142,7484	-82,4664	-83,7408	-79,9695	-86,2377	117,35				
	21	Tuka	-31,87	-25,844	-250,09	0	2,801	-28,209	-469,3944	-325,0045	-313,6811	-346,7115	-291,9741			-469,394		
	21	Tuki	-23,732	-2,668	-50,092	0	-1,471	15,683	-111,8272	-78,5381	-85,0059	-66,5303	-97,0137	55,9136				
	21	Lap	10,548	2,768	30,098	0	-0,137	1,399	64,136	46,3599	45,7945	47,4351	44,7193	64,136				
STORY1	21	Tuka	-23,79	-5,136	-23,128	0	1,197	-12,884	-71,716	-60,5074	-55,171	-70,3641	-45,3143			-111,827		
	21	Tuki	-15,674	-2,292	-35,095	0	-0,872	9,741	-77,7112	-54,6039	-58,7045	-47,1748	-66,1336	65,4082				
	21	Lap	10,059	2,423	22,917	0	-0,076	0,85	51,6456	38,0744	37,7164	38,7226	37,0682	51,646				
	21	Tuka	-32,827	-6,204	-52,487	0	0,719	-8,042	-130,8164	-101,0178	-97,6306	-107,1505	-91,4979			-130,816		
STORY4	21	Tuki	-95,508	-5,622	-18,702	0	-0,966	12,737	-151,2792	-137,2029	-142,9131	-127,6108	-152,5052	81,7731				
	21	Lap	143,855	8,64	33,043	0	-0,732	-0,367	235,8628	215,1949	216,8791	215,4504	216,6236	235,86				
	21	Tuka	-108,07	-5,218	-14,214	0	2,049	-14,006	-158,6832	-152,3076	-148,002	-163,5461	-136,7635			-163,546		
	21	Tuki	-107,09	-41,223	-500,18	0	-1,938	20,431	-978,2612	-673,9619	-682,3445	-658,3036	-698,0028	532,654				
STORY3	21	Lap	135,52	52,075	699,468	0	-0,37	-0,301	1344,2628	924,1217	925,0423	924,17	924,994	1344,3				
	21	Tuka	-120,57	-50,86	-537,25	0	2,474	-21,287	-1065,308	-746,8731	-739,0489	-763,5058	-722,4162			-1065,31		
	21	Tuki	-108,66	-16,167	-180,56	0	-1,878	20,421	-438,6896	-326,1053	-334,6019	-310,496	-350,1112	220,182				
	21	Lap	134,225	17,213	187,501	0	-0,311	1,062	481,7272	369,2342	369,219	370,1953	368,2579	481,73				
STORY1	21	Tuka	-122,19	-16,77	-171,01	0	1,936	-18,449	-440,3648	-341,3569	-334,1595	-355,6264	-319,89			-440,365		
	21	Tuki	-107,42	-15,676	-155,48	0	-1,113	12,787	-396,4888	-300,4765	-305,9227	-290,7465	-315,6527	213,745				
	21	Lap	134,836	18,106	196,364	0	-0,208	0,582	497,7128	379,861	379,9278	380,414	379,3748	497,71				
	21	Tuka	-120,44	-16,374	-164,57	0	1,208	-11,772	-427,4904	-331,0696	-326,4224	-340,1556	-317,3364			-427,49		
STORY4	21	Tuki	-69,9	2,634	52,994	0	-1,395	13,841	4,0712	-24,9679	-30,4825	-14,3027	-41,1477	85,3956				
	21	Lap	-2,652	-9,362	12,72	0	-0,689	5,215	5,9352	-0,8213	-2,5723	3,3115	-6,7051	42,698				
	21	Tuka	-47,519	-29,499	-48,981	0	0,017	-3,412	-170,7912	-142,4092	-140,396	-144,8095	-137,9957			-170,791		
	21	Tuki	-52,239	-30,482	-313,8	0	-2,897	26,993	-601,35	-407,8673	-418,2691	-386,9443	-439,1921	300,675				
STORY3	21	Lap	9,328	10,408	-6,041	0	-0,336	2,561	14,0176	18,0745	17,2099	20,1024	15,182	150,34				
	21	Tuka	-41,22	-28,476	-35,755	0	2,226	-21,871	-140,8432	-123,7255	-115,0549	-140,5934	-98,187			-601,35		
	21	Tuki	-54,572	-5,621	-31,619	0	-2,223	21,718	-122,822	-99,5582	-108,143	-82,7995	-124,9017	89,9434				
	21	Lap	11,365	-0,272	31,264	0	-0,187	1,545	63,334	44,8521	44,2991	46,0645	43,0867	63,334				
STORY2	21	Tuka	-34,814	-12,065	-77,27	0	1,849	-18,628	-179,8868	-137,2642	-129,7854	-151,5981	-115,4515			-179,887		

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)					Momen Rencana (kNm)		
			MD	MSD	ML	MR	ME <sub>x</sub>	ME <sub>y</sub>	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M <sub>lap</sub>	M-
STORY1	21	Tuki	-63,776	-8,556	-81,085	0	-1,361	13,887	-216,5344	-165,0783	-170,6885	-154,4047	-181,3621	108,267		
	21	Lap	10,216	0,578	19,227	0	-0,12	1,069	43,716	32,3805	31,9791	31,2128	31,1468		54,134	
	21	Tuka	-27,909	-7,43	-51,878	0	1,121	-11,749	-125,4116	-96,6885	-91,8811	-105,6975	-82,8721			-216,534
STORY4	21	Tuki	-51,666	-38,927	-24,209	0	-3,9	32,498	-147,446	-127,0712	-138,77	-101,5926	-164,2486	88,8187		
	21	Lap	25,08	4,201	-9,384	0	1,72	-15,227	20,1228	22,9051	28,6013	11,0422	40,4642		41,062	
	21	Tuka	-3,756	39,588	-14,929	0	7,339	-62,951	19,112	16,5231	39,6157	-32,6799	88,8187			-164,249
STORY3	21	Tuki	-44,202	-44,878	-15,789	0	-4,543	39,127	-132,1584	-115,4899	-129,8801	-84,9209	-160,4491	80,2246		
	21	Lap	23,356	7,099	12,782	0	0,858	-7,625	56,9972	47,8985	50,7575	41,9604	56,6956		56,997	
	21	Tuka	-14,666	24,449	-40,125	0	6,259	-54,376	-52,4604	-38,4392	-18,3316	-80,8837	24,1129			-160,449
STORY2	21	Tuki	-36,169	-24,628	-41,524	0	-3,335	30,6	-139,3948	-108,6354	-120,3254	-84,8809	-144,0799	72,04		
	21	Lap	23,843	4,547	32,301	0	0,549	-5,23	85,7496	65,349	67,389	61,3037	71,4343		85,73	
	21	Tuka	-21,726	17,426	-56,827	0	4,434	-41,06	-96,0832	-69,871	-54,103	-101,7168	-22,2572			-144,08
STORY1	21	Tuki	-30,249	-15,094	-36,186	0	-1,999	19,347	-112,3092	-86,7925	-94,4027	-71,8503	-109,3449	56,1546		
	21	Lap	24,894	4,274	37,015	0	0,366	-3,648	94,2256	71,2882	72,745	68,4784	75,5548		94,226	
	21	Tuka	-25,545	7,348	-52,737	0	2,732	-26,644	-106,2156	-79,8346	-69,3122	-100,3978	-48,749			-112,309
ATAP	22	Tuki	-31,844	-15,902	-9,728	0	-0,699	5,21	-72,86	-66,1592	-67,8872	-62,0229	-72,0235	36,43		
	22	Lap	20,836	3,891	5,152	0	0,392	-0,884	37,9156	34,9512	34,6976	34,058	35,5908		37,916	
	22	Tuka	-6,899	12,848	0,672	0	0,258	-5,213	8,214	6,5049	9,1167	2,6752	12,9464			-72,86
STORY19	22	Tuki	-131,58	-100,99	-46,207	0	-4,084	30,482	-353,014	-320,2292	-330,3504	-296,033	-354,5466	177,273		
	22	Lap	44,344	39,171	16,952	0	2,437	3,857	127,3412	120,7641	113,5759	121,7581	112,5819		127,34	
	22	Tuka	73,909	32,808	24,197	0	1,186	-22,334	166,7756	146,7432	157,7716	130,2792	174,2356			-354,547
STORY18	22	Tuki	-137,93	-109,86	-49,389	0	-4,744	35,329	-376,374	-340,8859	-352,5953	-312,8348	-380,6464	205,97		
	22	Lap	43,567	37,607	16,972	0	2,713	3,518	124,564	118,1492	110,6124	118,7127	110,0489		124,56	
	22	Tuka	77,333	49,235	26,657	0	1,489	-27,878	194,5328	171,6642	185,413	151,1073	205,9699			-380,646
STORY17	22	Tuki	-132,7	-105,58	-47,595	0	-5,028	37,578	-362,076	-327,2736	-339,7644	-297,4494	-369,5886	195,683		
	22	Lap	43,134	37,15	16,794	0	2,832	3,708	123,2112	117,0792	109,1904	117,6924	108,5772		123,21	
	22	Tuka	72,713	45,153	25,019	0	1,615	-29,709	181,4696	159,1605	173,7559	137,2337	195,6827			-369,589
STORY16	22	Tuki	-128,36	-102,68	-46,231	0	-5,437	40,757	-351,214	-316,6853	-330,2655	-284,3495	-362,6013	188,281		
	22	Lap	42,385	36,768	16,549	0	3,005	3,881	121,462	115,7019	107,3633	116,3151	106,7501		121,46	
	22	Tuka	68,244	42,357	23,6	0	1,791	-32,497	170,4812	148,3631	164,2793	124,3615	188,2809			-362,601
STORY15	22	Tuki	-118,69	-95,364	-47,903	0	-5,682	42,854	-325,5036	-292,5876	-306,936	-258,6124	-340,9112	170,456		
	22	Lap	41,117	35,878	16,105	0	3,075	4,205	118,162	112,8355	104,1625	113,6265	103,3715		118,16	
	22	Tuka	58,831	35,229	20,345	0	1,904	-33,884	145,424	124,9558	141,4782	99,9042	166,5298			-340,911



Lantai	Balok	Tum- puan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-	
STORY14	22	Tu.ki	-126,97	-102,85	-46,077	0	-7,017	54,008	-349,5084	-312,6768	-331,0476	-269,9593	-373,7651	228,524			
	22	Lap	43,888	39,141	17,005	0	3,889	-5,811	126,8428	118,7855	114,4941	111,9955	121,2841		126,84		
	22	Tu.ki	76,259	52,796	26,686	0	2,907	-47,844	197,5636	170,1058	192,9982	134,5801	228,5239			-373,765	
	22	Tu.ki	-133,08	-108,42	-48,392	0	-8,097	62,251	-367,2284	-327,6149	-348,7715	-278,3713	-398,0151	258,298			
STORY13	22	Lap	45,309	40,861	17,456	0	4,378	-8,247	131,3336	122,7639	118,9561	113,9264	127,7936		131,33		
	22	Tu.ki	83,406	60,118	29,245	0	3,557	-57,891	219,0208	187,6635	215,2841	144,6499	258,2977			-398,015	
	22	Tu.ki	-125,29	-102,35	-45,684	0	-8,489	64,896	-346,2624	-307,8722	-329,8318	-256,5027	-381,2013	240,609			
	22	Lap	44,065	39,892	17,027	0	4,524	-8,441	127,9916	119,7671	115,7837	110,6916	124,8592		127,99		
STORY11	22	Tu.ki	75,491	53,84	26,5	0	3,793	-60,05	197,5972	167,4752	195,9192	122,7851	240,6093			-381,201	
	22	Tu.ki	-119,17	-97,647	-43,595	0	-8,956	68,038	-329,9372	-292,3248	-315,2356	-238,429	-369,1314	228,554			
	22	Lap	43,116	39,252	16,693	0	4,699	-8,944	125,5504	117,5504	113,5188	108,0003	123,0689		125,55		
	22	Tu.ki	69,362	49,209	24,393	0	4,088	-63,102	181,314	151,8356	181,5208	104,8026	228,5538			-369,131	
STORY10	22	Tu.ki	-111,94	-92,073	-41,103	0	-9,387	70,738	-310,5744	-274,0782	-297,747	-217,9907	-353,8345	213,211			
	22	Lap	41,991	38,474	16,297	0	4,84	-9,358	122,6332	114,8876	110,8224	104,949	120,761		122,63		
	22	Tu.ki	62,113	43,682	21,886	0	4,385	-65,686	161,9716	133,5192	164,1608	84,4695	213,2105			-353,835	
	22	Tu.ki	-103,88	-85,873	-38,323	0	-9,759	72,909	-289,0228	-253,9153	-278,1427	-196,0477	-336,0103	195,379			
STORY9	22	Lap	40,731	37,603	15,852	0	4,94	-9,704	119,364	111,8816	107,824	101,6308	118,0748		119,36		
	22	Tu.ki	54,05	37,54	19,089	0	4,668	-67,782	140,4504	113,3304	144,6636	62,6154	195,3786			-336,01	
	22	Tu.ki	-95,058	-79,09	-35,272	0	-10,051	74,438	-265,4128	-231,9692	-256,53	-172,8269	-315,6723	175,197			
	22	Lap	39,345	36,656	15,361	0	4,993	-10,011	115,7788	108,5519	104,5725	98,0491	115,0753		115,78		
STORY8	22	Tu.ki	45,228	30,847	16,022	0	4,928	-69,363	116,9252	91,4311	123,1929	39,4274	175,1966			-315,672	
	22	Tu.ki	-83,881	-70,479	-31,359	0	-10,146	74,536	-235,4064	-204,3762	-228,8058	-145,0988	-288,0832	147,078			
	22	Lap	37,541	35,347	14,723	0	4,934	-9,879	111,0224	104,1589	100,2183	93,7898	110,5874		111,02		
	22	Tu.ki	33,969	22,164	12,071	0	5,077	-69,17	86,6732	63,7566	95,1046	11,7837	147,0775			-288,083	
STORY6	22	Tu.ki	-72,191	-61,299	-27,214	0	-10,012	73,718	-203,7304	-175,2986	-199,5054	-116,6876	-258,1164	142,783			
	22	Lap	37,036	35,438	14,512	0	5,115	-11,664	110,188	103,0966	99,865	91,3513	111,6103		111,61		
	22	Tu.ki	30,896	21,47	11,088	0	5,629	-70,544	80,58	58,393	89,4614	5,0719	142,7825			-258,116	
	22	Tu.ki	-66,906	-58,687	-25,419	0	-10,17	74,14	-191,382	-164,0586	-188,2026	-105,0416	-247,2196	132,974			
STORY5	22	Lap	36,388	35,017	14,292	0	5,068	-11,985	108,5532	101,4505	98,5055	89,5134	110,4426		110,44		
	22	Tu.ki	26,068	18,81	9,459	0	5,798	-71,401	68,988	47,6903	78,9349	-6,349	132,9742			-247,22	
	22	Tu.ki	-57,976	-45,917	-22,158	0	-8,665	61,712	-160,1244	-136,981	-156,6782	-87,7171	-205,9421	102,971			
	22	Lap	33,152	31,747	12,673	0	4,731	-11,372	98,1556	91,8712	89,2324	80,5991	100,5045		100,5		
STORY4	22	Tu.ki	17,614	10,675	6,617	0	5,134	-62,271	44,534	27,0165	54,1111	-20,167	101,2946			-205,942	
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Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)								Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-			
STORY3	22	TuKi	-43,581	-36,241	-22,392	0	-5,66	51,697	-131,6136	-108,3293	-128,0275	-68,1794	-168,1774	84,0887					
	22	Lap	14,347	14,565	10,633	0	0,004	-0,034	51,7072	45,3212	45,3336	45,2946	45,3602	51,707					
	22	TuKa	13,507	9,078	-0,633	0	5,667	-51,765	26,0892	16,6065	36,3315	-23,5959	76,5339			-168,177			
	22	TuKi	-35,608	-21,197	-27,776	0	-4,125	40,781	-112,6076	-87,8327	-104,0513	-56,3985	-135,4855	67,7428					
STORY2	22	Lap	14,909	2,616	22,282	0	0,015	-0,05	56,6812	43,312	43,312	43,2665	43,3575	56,681					
	22	TuKa	6,657	17,571	-16,24	0	4,154	-40,881	3,0896	4,7233	20,9439	-26,8012	52,4684			-135,486			
	22	TuKi	-25,483	-12,37	-24,33	0	-2,737	28,588	-84,3516	-63,9142	-75,593	-41,9867	-97,5205	48,7603					
	22	Lap	14,467	2,349	21,997	0	0,004	0,002	55,3744	42,1808	42,1716	42,1794	42,173	55,374			-97,5205		
ATAP	22	TuKa	-4,352	8,21	-20,256	0	2,745	-28,584	-27,78	-21,4566	-9,7962	-43,3869	12,1341			-97,5205			
	23	TuKi	-74,396	-12,173	-16,547	0	-0,482	6,699	-130,358	-118,9021	-121,9575	-113,8754	-126,9842	65,179					
	23	Lap	45,574	5,192	10,207	0	0,212	-2,471	77,2504	70,5969	71,6555	68,7188	73,5336	77,25					
	23	TuKa	-71,761	0,06	-16,169	0	0,293	-6,658	-111,9116	-103,9146	-100,5058	-108,7803	-95,6401			-130,358			
STORY19	23	TuKi	-83,795	-114,8	-28,184	0	-2,86	39,903	-283,4048	-257,3835	-275,6053	-227,4494	-305,5394	152,77					
	23	Lap	72,754	76,147	28,599	0	1,367	-18,315	224,4396	203,1527	211,4077	189,3753	225,1851	225,19					
	23	TuKa	-86,819	-84,779	-35,977	0	2,343	-43,107	-263,4808	-252,4837	-231,3055	-284,2987	-199,4905			-305,539			
	23	TuKi	-85,901	-110,62	-29,162	0	-3,219	45,031	-282,4856	-254,6981	-275,2787	-220,9231	-309,0537	154,527					
STORY18	23	Lap	71,967	69,262	27,871	0	1,523	-20,664	214,0684	192,6696	202,022	177,1387	217,5529	217,55					
	23	TuKa	-85,188	-67,146	-36,107	0	2,74	-48,503	-240,572	-230,7187	-207,0969	-266,5888	-171,2268			-309,054			
	23	TuKi	-85,627	-108,94	-29,125	0	-3,451	46,524	-280,0792	-252,098	-273,1104	-217,1155	-308,0929	154,046					
	23	Lap	71,813	68,687	27,907	0	1,633	-21,403	213,2512	191,7191	201,2949	175,5939	217,4201	217,42					
STORY16	23	TuKa	-86,098	-69,015	-36,188	0	2,979	-50,102	-244,0364	-234,3752	-210,272	-271,5319	-173,1153			-308,093			
	23	TuKi	-85,368	-107,94	-29,146	0	-3,768	48,964	-278,5972	-250,1884	-272,0308	-213,276	-308,9432	154,472					
	23	Lap	71,426	67,937	27,755	0	1,781	-22,68	211,6436	189,9676	200,0136	172,8449	217,1363	217,14					
	23	TuKa	-87,268	-70,649	-36,533	0	3,322	-52,853	-247,9532	-238,5673	-213,4995	-277,8898	-174,177			-308,943			
STORY15	23	TuKi	-83,776	-105,02	-28,858	0	-4,016	50,035	-272,728	-244,4187	-266,4077	-206,583	-304,2434	152,122					
	23	Lap	71,811	66,968	27,973	0	1,908	-23,333	211,2916	189,4159	199,5997	171,7472	217,2684	217,27					
	23	TuKa	-88,677	-73,822	-36,599	0	3,582	-54,133	-253,5572	-244,2557	-218,9399	-284,6562	-178,5394			-304,243			
	23	TuKi	-84,674	-106,37	-28,608	0	-4,946	61,84	-275,0292	-244,2584	-271,4704	-197,5082	-318,2206	159,11					
STORY14	23	Lap	66,154	66,601	25,604	0	2,335	-28,701	200,2734	178,6347	191,1853	156,9095	212,9105	212,91					
	23	TuKa	-77,806	-59,218	-33,662	0	4,524	-64,938	-218,288	-213,0482	-183,1334	-261,6716	-134,31			-318,221			
	23	TuKi	-90,154	-111,61	-30,381	0	-5,671	70,132	-290,7216	-257,1244	-287,8616	-204,0623	-340,9237	170,462					
	23	Lap	63,566	66,364	24,538	0	2,615	-31,692	195,1768	173,5614	187,3466	149,5465	211,3615	211,36					
23	TuKa	-77,062	-56,97	-33,862	0	5,169	-72,206	-215,0176	-211,1932	-178,2076	-265,3557	-124,0451				-340,924			



	Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
				MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-	
STORY3		22	Tu.ki	-43,581	-36,241	-22,392	0	-5,66	51,697	-131,6136	-108,3293	-128,0275	-68,1794	-168,1774	84,0887			
		22	Lap	14,347	14,565	10,633	0	0,004	-0,034	51,7072	45,3212	45,3336	45,2946	45,3602	51,707			
		22	Tu.ki	13,507	9,078	-0,633	0	5,667	-51,765	26,0892	16,6065	36,3315	-23,5959	76,5339			-168,177	
STORY2		22	Tu.ki	-35,608	-21,197	-27,776	0	-4,125	40,781	-112,6076	-87,8327	-104,0513	-56,3985	-135,4855	67,7428			
		22	Lap	14,909	2,616	22,282	0	0,015	-0,05	56,6812	43,312	43,312	43,2665	43,3575	56,681			
		22	Tu.ki	6,657	17,571	-16,24	0	4,154	-40,881	3,0896	4,7233	20,9439	-26,8012	52,4684			-135,486	
STORY1		22	Tu.ki	-25,483	-12,37	-24,33	0	-2,737	28,588	-84,3516	-63,9142	-75,593	-41,9867	-97,5205	48,7603			
		22	Lap	14,467	2,349	21,997	0	0,004	0,002	55,3744	42,1808	42,1716	42,1794	42,173	55,374			
		22	Tu.ki	-4,352	8,21	-20,256	0	2,745	-28,584	-27,78	-21,4566	-9,7962	-43,3869	12,1341			-97,5205	
ATAP		23	Tu.ki	-74,396	-12,173	-16,547	0	-0,482	6,699	-130,358	-118,9021	-121,9575	-113,8754	-126,9842	65,179			
		23	Lap	45,574	5,192	10,207	0	0,212	-2,471	77,2504	70,5969	71,6555	68,7188	73,5336	77,25			
		23	Tu.ki	-71,761	0,06	-16,169	0	0,293	-6,658	-111,9116	-103,9146	-100,5058	-108,7803	-95,6401			-130,358	
STORY19		23	Tu.ki	-83,795	-114,8	-28,184	0	-2,86	39,903	-283,4048	-257,3835	-275,6053	-227,4494	-305,5394	152,77			
		23	Lap	72,754	76,147	28,599	0	1,367	-18,315	224,4396	203,1527	211,4077	189,3753	225,1851	225,19			
		23	Tu.ki	-86,819	-84,779	-35,977	0	2,343	-43,107	-263,4808	-252,4837	-231,3055	-284,2987	-199,4905			-305,539	
STORY18		23	Tu.ki	-85,901	-110,62	-29,162	0	-3,219	45,031	-282,4856	-254,6981	-275,2787	-220,9231	-309,0537	154,527			
		23	Lap	71,967	69,262	27,871	0	1,523	-20,664	214,0684	192,6696	202,022	177,1387	217,5529	217,55			
		23	Tu.ki	-85,188	-67,146	-36,107	0	2,74	-48,503	-240,572	-230,7187	-207,0969	-266,5888	-171,2268			-309,054	
STORY17		23	Tu.ki	-85,637	-108,94	-29,125	0	-3,451	46,524	-280,0792	-252,098	-273,1104	-217,1155	-308,0929	154,046			
		23	Lap	71,813	68,687	27,907	0	1,633	-21,403	213,2512	191,7191	201,2949	175,5939	217,4201	217,42			
		23	Tu.ki	-86,098	-69,015	-36,188	0	2,979	-50,102	-244,0364	-234,3752	-210,272	-271,5319	-173,1153			-308,093	
STORY16		23	Tu.ki	-85,368	-107,94	-29,146	0	-3,768	48,964	-278,5972	-250,1884	-272,0308	-213,276	-308,9432	154,472			
		23	Lap	71,426	67,937	27,755	0	1,781	-22,68	211,6436	189,9676	200,0136	172,8449	217,1363	217,14			
		23	Tu.ki	-87,268	-70,649	-36,533	0	3,322	-52,853	-247,9532	-238,5673	-213,4995	-277,8898	-174,177			-308,943	
STORY15		23	Tu.ki	-83,776	-105,02	-28,858	0	-4,016	50,035	-272,728	-244,4187	-266,4077	-206,583	-304,2434	152,122			
		23	Lap	71,811	66,968	27,973	0	1,908	-23,333	211,2916	189,4159	199,5997	171,7472	217,2684	217,27			
		23	Tu.ki	-88,677	-73,822	-36,599	0	3,582	-54,133	-253,5572	-244,2557	-218,9399	-284,6562	-178,5394			-304,243	
STORY14		23	Tu.ki	-84,674	-106,37	-28,608	0	-4,946	61,84	-275,0292	-244,2584	-271,4704	-197,5082	-318,2206	159,11			
		23	Lap	66,154	66,601	25,604	0	2,335	-28,701	200,2724	178,6347	191,1853	156,9095	212,9105	212,91			
		23	Tu.ki	-77,806	-59,218	-33,662	0	4,524	-64,938	-218,288	-213,0482	-183,1334	-261,6716	-134,51			-318,221	
STORY13		23	Tu.ki	-90,154	-111,61	-30,381	0	-5,671	70,132	-290,7216	-257,1244	-287,8616	-204,0623	-340,9237	170,462			
		23	Lap	63,566	66,364	24,538	0	2,615	-31,692	195,1768	173,5614	187,3466	149,5465	211,3615	211,36			
		23	Tu.ki	-77,062	-56,97	-33,862	0	5,169	-72,206	-215,0176	-211,1932	-178,2076	-265,3557	-124,0451			-340,924	



Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)						Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	Mlap	M-	
STORY12	23	Tuki	-88,387	-108,73	-29,994	0	-5,996	71,53	-284,5272	-251,0678	-281,9938	-196,7996	-336,262	168,131			
	23	Lap	63,955	65,461	24,708	0	2,773	-32,493	194,832	173,0323	186,9821	148,3461	211,6683	211,67			
	23	Tuka	-78,663	-59,923	-34,125	0	5,516	-73,8	-220,9032	-217,0522	-183,8042	-272,5734	-128,283			-336,262	
STORY11	23	Tuki	-87,553	-106,79	-29,895	0	-6,351	73,498	-281,04	-247,4046	-278,8014	-191,5103	-334,6957	167,348			
	23	Lap	63,798	64,477	24,648	0	2,934	-33,43	193,3668	171,483	185,673	146,0282	211,1278	211,13			
	23	Tuka	-80,258	-62,468	-34,504	0	5,887	-75,791	-226,4776	-222,6255	-188,9249	-279,8001	-131,7503			-334,696	
STORY10	23	Tuki	-86,448	-104,41	-29,736	0	-6,678	74,818	-276,6048	-242,9958	-274,5306	-185,9486	-331,5778	165,789			
	23	Lap	63,722	63,376	24,624	0	3,085	-34,095	191,916	169,9981	184,2851	143,9721	210,3111	210,31			
	23	Tuka	-82,025	-65,421	-34,895	0	6,238	-77,139	-232,7672	-228,7339	-194,9265	-287,0978	-136,5626			-331,578	
STORY9	23	Tuki	-85,259	-101,78	-29,573	0	-6,957	75,461	-271,7684	-238,3433	-269,7059	-180,6507	-327,3985	163,699			
	23	Lap	63,621	62,151	24,591	0	3,213	-34,457	190,272	168,3933	182,6415	142,0243	209,0105	209,01			
	23	Tuka	-83,941	-68,673	-35,318	0	6,548	-77,796	-239,6456	-235,3456	-201,664	-294,2864	-142,6232			-327,399	
STORY8	23	Tuki	-84,075	-98,998	-29,431	0	-7,171	75,381	-266,7772	-233,6753	-264,5619	-175,8889	-322,3483	161,174			
	23	Lap	63,437	61,442	24,525	0	3,31	-34,465	189,0948	167,3503	181,4093	140,9078	207,8518	207,85			
	23	Tuka	-86,014	-72,188	-35,785	0	6,797	-77,664	-247,0984	-242,1296	-209,1252	-301,2523	-150,0025			-322,348	
STORY7	23	Tuki	-82,303	-95,313	-29,14	0	-7,238	73,488	-259,7632	-227,4708	-257,0876	-170,9626	-313,5958	156,798			
	23	Lap	63,556	61,526	24,589	0	3,354	-33,829	189,4408	167,8927	181,4821	141,8646	207,5102	207,51			
	23	Tuka	-88,149	-76,332	-36,171	0	6,933	-75,936	-255,2508	-249,396	-217,7004	-307,4043	-159,6921			-313,596	
STORY6	23	Tuki	-74,644	-86,542	-26,455	0	-7,327	72,936	-235,7512	-205,3244	-234,432	-149,1403	-290,6161	145,308			
	23	Lap	61,821	60,383	23,883	0	3,464	-34,004	184,8576	163,7906	177,265	137,563	203,4926	203,49			
	23	Tuka	-79,927	-68,816	-32,966	0	6,99	-74,054	-231,2372	-226,6838	-196,2314	-283,4146	-139,5006			-290,616	
STORY5	23	Tuki	-76,045	-86,374	-26,989	0	-7,308	71,663	-238,0852	-207,7009	-236,0827	-152,4212	-291,3624	145,681			
	23	Lap	61,45	60,022	23,591	0	3,4	-32,888	183,512	162,891	175,8238	137,4894	201,2254	201,23			
	23	Tuka	-79,539	-69,919	-33,129	0	6,942	-71,957	-232,356	-227,1237	-197,8335	-282,353	-142,6042			-291,362	
STORY4	23	Tuki	-73,109	-84,371	-27,061	0	-6,718	64,242	-232,2736	-203,4824	-228,5916	-153,8104	-278,2636	147,104			
	23	Lap	60,471	61,181	23,925	0	3,209	-29,948	184,2624	164,132	175,6828	140,9221	198,8927	198,89			
	23	Tuka	-87,203	-77,302	-34,004	0	6,44	-64,729	-251,8124	-244,3887	-218,4313	-294,207	-168,613			-294,207	
STORY3	23	Tuki	-70,116	-65,358	-43,811	0	-5,067	50,963	-232,6664	-196,1579	-216,6017	-156,9369	-255,8227	127,911			
	23	Lap	61,263	46,884	41,858	0	-2,111	21,919	196,7492	176,0991	167,1697	192,9201	150,3487	196,75			
	23	Tuka	-46,527	-31,799	-38,688	0	4,969	-50,093	-155,892	-142,7381	-122,6203	-181,2815	-84,0769			-255,823	
STORY2	23	Tuki	-68,056	-17,102	-85,665	0	-3,672	38,473	-239,2536	-179,9847	-195,7245	-150,4832	-225,236	119,627			
	23	Lap	85,319	14,284	113,621	0	0,133	0,565	301,3172	233,4471	232,8421	233,7495	232,5397	301,32			
	23	Tuka	-57,945	2,228	-88,28	0	3,46	-37,628	-208,1084	-162,9688	-147,312	-191,7304	-118,5504			-239,254	



Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)					Kombinasi Momen (kNm)					Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M-
STORY1	23	Tu.ki	-65,733	-11,481	-85,954	0	-2,402	26,233	-230,1832	-173,1429	-184,0787	-153,0984	-204,1232	115,092	
	23	Lap	83,924	11,16	113,654	0	0,079	-0,252	295,9472	227,7582	227,7514	227,5265	227,9831	295,95	
	23	Tu.ki	-61,546	-0,895	-87,909	0	2,313	-25,862	-215,5836	-168,2838	-157,3926	-188,0063	-137,6701		-230,183
ATAP	24	Tu.ki	-62,132	-3,807	-10,56	0	-0,115	1,115	-96,0228	-89,4673	-89,9063	-88,6063	-90,7673	48,0114	
	24	Lap	-23,922	-1,516	-3,78	0	-0,042	0,641	-36,5736	-34,1553	-34,4559	-33,6772	-34,934	24,006	
	24	Tu.ki	9,76	0,394	2,001	0	0,031	0,168	15,3864	14,2672	14,1044	14,3631	14,0085		-96,0228
STORY19	24	Tu.ki	-74,326	-115,74	-21,747	0	-0,219	2,471	-262,8744	-249,3039	-250,3485	-247,4209	-252,2315	131,437	
	24	Lap	-31,616	-50,502	-8,718	0	-0,098	1,379	-112,4904	-106,9439	-107,5753	-105,91	-108,6092	65,719	
	24	Tu.ki	5,203	6,714	1,811	0	0,023	0,287	17,198	16,2205	16,0023	16,4053	15,8175		-262,874
STORY18	24	Tu.ki	-73,974	-100,91	-21,55	0	-0,224	2,766	-244,3372	-230,8014	-232,013	-228,7084	-234,106	122,169	
	24	Lap	-31,473	-44,059	-8,634	0	-0,1	1,54	-104,4528	-98,9104	-99,6344	-97,7624	-100,7824	61,084	
	24	Tu.ki	5,137	5,671	1,782	0	0,025	0,314	15,8208	14,8708	14,6324	15,0731	14,4301		-244,337
STORY17	24	Tu.ki	-74,138	-101	-21,623	0	-0,224	2,886	-244,7588	-231,1432	-232,4268	-228,9662	-234,6038	122,379	
	24	Lap	-31,536	-44,075	-8,664	0	-0,1	1,603	-104,5956	-99,0163	-99,7781	-97,8242	-100,9702	61,19	
	24	Tu.ki	5,176	5,73	1,796	0	0,023	0,32	15,9608	15,0022	14,7642	15,2101	14,5563		-244,759
STORY16	24	Tu.ki	-74,218	-101,03	-21,651	0	-0,211	3,068	-244,9356	-231,2356	-232,6544	-228,9403	-234,9497	122,468	
	24	Lap	-31,56	-44,075	-8,673	0	-0,096	1,699	-104,6388	-99,0213	-99,8487	-97,7648	-101,1052	61,234	
	24	Tu.ki	5,208	5,758	1,806	0	0,019	0,331	16,0488	15,0835	14,8469	15,3019	14,6285		-244,936
STORY15	24	Tu.ki	-74,565	-101,22	-21,802	0	-0,227	3,187	-245,8204	-232,0101	-233,4683	-229,6203	-235,8581	122,91	
	24	Lap	-31,691	-44,125	-8,735	0	-0,104	1,76	-104,9552	-99,2902	-100,1382	-97,9854	-101,443	61,455	
	24	Tu.ki	5,292	5,848	1,834	0	0,018	0,333	16,3024	15,3199	15,0841	15,5404	14,8636		-245,82
STORY14	24	Tu.ki	-68,4	-93,687	-19,753	0	-0,214	3,698	-226,1092	-213,362	-215,1528	-210,6236	-217,8912	113,055	
	24	Lap	-29,058	-40,89	-7,892	0	-0,094	2,049	-96,5648	-91,3089	-92,3503	-89,8088	-93,8504	56,527	
	24	Tu.ki	5,081	5,611	1,768	0	0,025	0,4	15,6592	14,7434	14,4534	15,0059	14,1909		-226,109
STORY13	24	Tu.ki	-68,15	-93,572	-19,623	0	-0,226	4,099	-225,4632	-212,7157	-214,6631	-209,6672	-217,7116	112,732	
	24	Lap	-28,974	-40,879	-7,84	0	-0,11	2,269	-96,3676	-91,0929	-92,2343	-89,4276	-93,8996	56,366	
	24	Tu.ki	4,999	5,517	1,742	0	0,036	0,439	15,4064	14,5289	14,1935	14,811	13,9114		-225,463
STORY12	24	Tu.ki	-68,42	-93,73	-19,737	0	-0,246	4,221	-226,1592	-213,2967	-215,3373	-210,1698	-218,4642	113,08	
	24	Lap	-29,07	-40,917	-7,885	0	-0,107	2,332	-96,6004	-91,2768	-92,462	-89,5695	-94,1693	56,54	
	24	Tu.ki	5,078	5,599	1,768	0	0,032	0,443	15,6412	14,7453	14,4155	15,033	14,1278		-226,159
STORY11	24	Tu.ki	-68,606	-93,84	-19,812	0	-0,235	4,356	-226,6344	-213,6754	-215,819	-210,4617	-219,0327	113,317	
	24	Lap	-29,134	-40,943	-7,912	0	-0,103	2,403	-96,7516	-91,3865	-92,6223	-89,6323	-94,3765	56,659	
	24	Tu.ki	5,135	5,657	1,787	0	0,03	0,449	15,8096	14,9021	14,5727	15,1954	14,2794		-226,634

Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)					Momen Rencana (kNm)		
			MD	MSD	ML	MR	MEx	MEy	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M <sub>lap</sub>	M-
STORY10	24	Tu.ki	-68,836	-93,976	-19,906	0	-0,222	4,456	-227,224	-214,1656	-216,3952	-210,891	-219,6698	113,612		
	24	Lap	-29,215	-40,976	-7,948	0	-0,097	2,454	-96,946	-91,538	-92,8164	-89,7523	-94,6021	56,806		
	24	Tu.ka	5,203	5,728	1,81	0	0,027	0,451	16,0132	15,0895	14,7649	15,3863	14,4681			-227,224
STORY9	24	Tu.ki	-69,088	-94,125	-20,009	0	-0,204	4,517	-227,87	-214,7135	-217,0157	-211,4088	-220,3204	113,935		
	24	Lap	-29,305	-41,012	-7,987	0	-0,09	2,483	-97,1596	-91,7125	-93,0223	-89,9114	-94,8234	56,968		
	24	Tu.ka	5,277	5,804	1,834	0	0,023	0,449	16,2316	15,2889	14,9735	15,5871	14,6753			-227,87
STORY8	24	Tu.ki	-69,355	-94,282	-20,118	0	-0,183	4,53	-228,5532	-215,3064	-217,6584	-212,0073	-220,9575	114,277		
	24	Lap	-29,4	-41,051	-8,029	0	-0,082	2,486	-97,3876	-91,9064	-93,234	-90,1088	-95,0316	57,138		
	24	Tu.ka	5,353	5,883	1,86	0	0,019	0,443	16,4592	15,4951	15,1913	15,7919	14,8945			-228,553
STORY7	24	Tu.ki	-69,709	-94,478	-20,265	0	-0,147	4,457	-229,4484	-216,0993	-218,4795	-212,8765	-221,7023	114,724		
	24	Lap	-29,529	-41,099	-8,087	0	-0,068	2,442	-97,6928	-92,176	-93,5052	-90,419	-95,2622	57,362		
	24	Tu.ka	5,449	5,985	1,892	0	0,011	0,427	16,748	15,7519	15,4737	16,0431	15,1825			-229,448
STORY6	24	Tu.ki	-64,51	-87,574	-18,651	0	-0,181	4,246	-212,3424	-200,059	-202,2446	-196,9601	-205,3435	106,171		
	24	Lap	-27,254	-38,031	-7,426	0	-0,079	2,337	-90,2236	-85,1459	-86,3901	-83,4547	-88,0813	53,086		
	24	Tu.ka	5,467	6	1,899	0	0,024	0,428	16,7988	15,8118	15,507	16,0946	15,2242			-212,342
STORY5	24	Tu.ki	-64,763	-87,709	-18,712	0	-0,131	4,118	-212,9056	-200,574	-202,7828	-197,5997	-205,7571	106,453		
	24	Lap	-27,37	-38,087	-7,452	0	-0,056	2,267	-90,4716	-85,3763	-86,6245	-83,7502	-88,2506	53,226		
	24	Tu.ka	5,487	6,023	1,908	0	0,018	0,415	16,8648	15,8625	15,5775	16,1404	15,2996			-212,906
STORY4	24	Tu.ki	-120,81	-104,94	-21,968	0	0,111	5,119	-306,0488	-291,2213	-294,5147	-287,7157	-298,0203	153,024		
	24	Lap	-49,28	-42,084	-7,462	0	0,08	2,969	-121,576	-116,1281	-118,0695	-114,1058	-120,0918	76,512		
	24	Tu.ka	15,464	15,259	5,142	0	0,05	0,819	45,0948	42,3053	41,7139	42,8436	41,1756			-306,049
STORY3	24	Tu.ki	95,568	89,934	12,336	0	-2,708	29,665	242,34	241,1299	228,7469	263,791	206,0858	263,791		
	24	Lap	21,491	14,586	7,994	0	-0,414	4,886	56,0828	52,3382	50,2346	56,0482	46,5246	56,083		
	24	Tu.ka	-55,939	-61,783	1,252	0	1,881	-19,894	-139,2632	-144,1016	-135,9772	-159,3441	-170,6847			-159,344
STORY2	24	Tu.ki	109,601	120,273	-11,41	0	-4,094	47,118	257,5928	274,4802	254,3974	310,3286	218,549	310,329		
	24	Lap	-28,302	17,579	-57,214	0	-0,616	7,197	-104,41	-68,5385	-71,6247	-63,0694	-77,0938	120,14		
	24	Tu.ka	-171,12	-85,595	-107,82	0	2,862	-32,723	-480,572	-422,8355	-408,9257	-447,745	-384,0162			-480,572
STORY1	24	Tu.ki	40,527	52,544	-22,268	0	-2,625	30,753	76,0564	96,0181	82,8163	119,3827	59,4517	225,667		
	24	Lap	-38,464	-34,15	-58,389	0	-0,471	5,433	-180,5592	-144,3669	-146,6847	-140,2341	-150,8175	112,83		
	24	Tu.ka	-122,37	-121,32	-99,311	0	1,683	-19,886	-451,334	-396,0302	-387,4646	-411,1285	-372,3663			-451,334



Lantai	Balok	Tumpuan	Momen hasil analisis (kNm)						Kombinasi Momen (kNm)					Momen Rencana (kNm)		
			MD	MSD	ML	MR	ME <sub>x</sub>	ME <sub>y</sub>	Comb.1	Comb.2	Comb.3	Comb.4	Comb.5	M+	M <sub>lap</sub>	M-
STORY2	24	TuKi	-141,35	-17,512	-165,32	0	-0,053	0,504	-455,1384	-355,8512	-356,0476	-355,4613	-356,4375	227,569		
	24	Lap	-57,716	-6,672	-63,318	0	-0,026	0,305	-178,5744	-140,5181	-140,6491	-140,2864	-140,8808		113,78	
	24	TuKa	6,883	1,049	7,502	0	0	0,106	21,5216	17,0522	16,9886	17,1264	16,9144			-455,138
STORY1	24	TuKi	-141,23	-120,16	-165,46	0	-0,083	0,338	-578,4028	-479,1084	-479,1452	-478,8137	-479,4399	289,201		
	24	Lap	-57,702	-56,646	-63,558	0	-0,033	0,196	-238,5904	-200,5498	-200,6014	-200,3895	-200,7617		144,6	
	24	TuKa	6,794	3,747	7,566	0	0,018	0,054	24,7548	20,2494	20,181	20,2746	20,1558			-578,403

- Catatan :
1. Comb.1 = 1,2MD+1,2MSD+1,6ML+0,5R
  2. Comb.2 = 1,2MD+1,2MSD+1ML+1Ex+0,3Ey
  3. Comb.3 = 1,2MD+1,2MSD+1ML-1Ex-0,3Ey
  4. Comb.4 = 1,2MD+1,2MSD+1ML+0,3Ex+1Ey
  5. Comb.5 = 1,2MD+1,2MSD+1ML-0,3Ex-1Ey

Tabel Penulangan Lentur Balok 30x40

Lantai	Balok	Lokasi	Mu (kNm)	dimensi (mm)		$\rho$	$A_{smin}$	$A_{smaks}$	Asperlu	$A_{spakai}$ (mm <sup>2</sup> )	jumlah tul	As (mm <sup>2</sup> )
				b	h							
20 sd 21	B86	Tumpuan (-)	274,181	300	400	0,0249	354,375	2057,4316	2524,7500	2524,75	6	2943,75
	lt 20	Tumpuan (+)	146,721	300	400	0,0118	354,375	2057,4316	1197,9993	1198,00	3	1471,88
		Lapangan (+)	124,559	300	400	0,0099	354,375	2057,4316	1000,1426	1000,14	3	1471,88
		Lapangan (-)	68,545	300	400	0,0052	354,375	2057,4316	529,4580	529,46	2	981,25
16 sd 19	B86	Tumpuan (-)	364,653	300	400	0,0380	354,375	2057,4316	3848,3308	3848,33	8	3925,00
	lt 19	Tumpuan (+)	216,820	300	400	0,0186	354,375	2057,4316	1879,8019	1879,80	4	1962,50
		Lapangan (+)	205,779	300	400	0,0174	354,375	2057,4316	1765,8286	1765,83	4	1962,50
		Lapangan (-)	91,163	300	400	0,0071	354,375	2057,4316	714,8690	714,87	2	981,25
11 sd 15	B86	Tumpuan (-)	341,030	300	400	0,0340	354,375	2057,4316	3446,0338	3446,03	8	3925,00
	lt 15	Tumpuan (+)	199,049	300	400	0,0168	354,375	2057,4316	1697,6975	1697,70	4	1962,50
		Lapangan (+)	161,396	300	400	0,0132	354,375	2057,4316	1333,2156	1333,22	3	1471,88
		Lapangan (-)	85,258	300	400	0,0066	354,375	2057,4316	665,8843	665,88	2	981,25
4sd 10	B86	Tumpuan (-)	343,778	300	400	0,0345	354,375	2057,4316	3490,0177	3490,02	8	3925,00
	lt 10	Tumpuan (+)	208,354	300	400	0,0177	354,375	2057,4316	1792,1599	1792,16	4	1962,50
		Lapangan (+)	174,575	300	400	0,0144	354,375	2057,4316	1457,7628	1457,76	3	1471,88
		Lapangan (-)	85,944	300	400	0,0066	354,375	2057,4316	671,5603	671,56	2	981,25
Basement sd 3	B86	Tumpuan (-)	319,423	300	400	0,0308	354,375	2057,4316	3120,2889	3120,29	7	3434,38
	lt 3	Tumpuan (+)	204,985	300	400	0,0174	354,375	2057,4316	1757,7417	1757,74	4	1962,50
		Lapangan (+)	172,361	300	400	0,0142	354,375	2057,4316	1436,6255	1436,63	3	1471,88
		Lapangan (-)	79,856	300	400	0,0061	354,375	2057,4316	621,4383	621,44	2	981,25



Momen Kapasitas											
Lantai	Balok	Beatang Berat	Tulangan	Luas	As'	As	c	a	fs'	Mn	Mpr
20	B86	5700	Tulangan Atas Balok (Asb1)	2943,75							
	It 20	5700	Tulangan Bawah Balok(Asb2)	1471,88							
		5700	Tulangan Atas Pelat P8-150 (Asp1)	321,536	3642,09	1471,88	47,32	40,2203	-193,166	275,59712	295,42344
		5700	Tulangan Bawah Pelat P10-200 (Asp2)	376,8							
16 sd 19	B86	5700	Tulangan Atas Balok ( Asb1)	3925,00							
	It 19	5700	Tulangan Bawah Balok(Asb2)	1962,50							
		5700	Tulangan Atas Pelat P8-150 (Asp1)	321,536	4623,34	1962,50	51,21	43,53038	-132,725	351,37298	382,09827
		5700	Tulangan Bawah Pelat P10-200 (Asp2)	376,8							
11 sd 15	B86	5700	Tulangan Atas Balok (Asb1)	3925,00							
	It 15	5700	Tulangan Bawah Balok(Asb2)	1962,50							
		5700	Tulangan Atas Pelat P8-150 (Asp1)	321,536	4623,34	1962,50	51,21	43,53038	-132,725	351,37298	382,09827
		5700	Tulangan Bawah Pelat P10-200 (Asp2)	376,8							
4 sd10	B86	5700	Tulangan Atas Balok (Asb1)	3925,00							
	It 10	5700	Tulangan Bawah Balok(Asb2)	1962,50							
		5700	Tulangan Atas Pelat P8-150 (Asp1)	321,536	4623,34	1962,50	51,21	43,53038	-132,725	351,37298	382,09827
		5700	Tulangan Bawah Pelat P10-200 (Asp2)	376,8							
Basement sd 3	B86	5700	Tulangan Atas Balok (Asb1)	3434,38							
	It 3	5700	Tulangan Bawah Balok(Asb2)	1962,50							
		5700	Tulangan Atas Pelat P8-150 (Asp1)	321,536	4132,71	1962,50	50,47	42,89874	-143,571	350,98363	382,09827
		5700	Tulangan Bawah Pelat P10-200 (Asp2)	376,8							





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LOA DING COMB INATIO NS

COMBO	COMBO	TYPE	CASE	CASE	TYPE	SCALE	FACTOR
DCON1	ADD	DL	Static			1,4	
	SD	Static				1,4	
DCON2	ADD	DL	Static			1,2	
	LL	Static				1,6	
	SD	Static				1,2	
DCON3	ADD	DL	Static			1,4	
	LL	Static				1	
	SD	Static				1,4	
	EX	Static				1	
DCON4	ADD	DL	Static			1,4	
	LL	Static				1	
	SD	Static				1,4	
	EX	Static				-1	
DCON5	ADD	DL	Static			1,4	
	LL	Static				1	
	SD	Static				1,4	
	EY	Static				1	
DCON6	ADD	DL	Static			1,4	
	LL	Static				1	
	SD	Static				1,4	
	EY	Static				-1	
DCON7	ADD	DL	Static			1,4	
	SD	Static				1,4	
	EX	Static				1	
DCON8	ADD	DL	Static			1,4	
	SD	Static				1,4	
	EX	Static				-1	
DCON9	ADD	DL	Static			1,4	
	SD	Static				1,4	
	EY	Static				1	

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COL UMN FORC ES

STORY	COLUMN	LOAD	LOC	P	V2	V3	T	M2	M3
LT19	C35	DL							
		0	-189,4	-1,13	-4,91	0	-7,596	-1,747	
		1,3	-184,4	-1,13	-4,91	0	-1,217	-0,278	
		2,6	-179,41	-1,13	-4,91	0	5,161	1,192	
LT19	C35	LL							
		0	-137,27	-0,32	-4,62	-0,014	-7,247	-0,477	
		1,3	-137,27	-0,32	-4,62	-0,014	-1,244	-0,06	
		2,6	-137,27	-0,32	-4,62	-0,014	4,759	0,357	
LT19	C35	SD							
		0	-273,29	-1,17	-10,86	-0,044	-16,682	-1,786	
		1,3	-273,29	-1,17	-10,86	-0,044	-2,568	-0,263	
		2,6	-273,29	-1,17	-10,86	-0,044	11,547	1,261	
LT19	C35	EX							
		0	3,09	107,96	-0,26	0,037	-0,4	140,528	
		1,3	3,09	107,96	-0,26	0,037	-0,063	0,177	
		2,6	3,09	107,96	-0,26	0,037	0,273	-140,175	
LT19	C35	EY							
		0	494,95	0,88	82,06	0,062	99,027	1,302	



			1,3	494,95	0,88	82,06	0,062	-7,652	0,16
			2,6	494,95	0,88	82,06	0,062	-114,33	-0,982
LT19	C35	SNI2002	0	441,77	99,28	86,81	0,465	110,268	129,194
			1,3	441,77	99,28	86,81	0,465	8,891	1,81
			2,6	441,77	99,28	86,81	0,465	116,075	128,955
LT19	C35	DCON1	0	-647,77	-3,22	-22,07	-0,061	-33,989	-4,947
			1,3	-640,78	-3,22	-22,07	-0,061	-5,299	-0,757
			2,6	-633,79	-3,22	-22,07	-0,061	23,391	3,434
LT19	C35	DCON2	0	-774,87	-3,28	-26,3	-0,076	-40,728	-5,004
			1,3	-768,88	-3,28	-26,3	-0,076	-6,532	-0,745
			2,6	-762,89	-3,28	-26,3	-0,076	27,664	3,514
LT19	C35	DCON3	0	-781,95	104,42	-26,95	-0,039	-41,636	135,104
			1,3	-774,96	104,42	-26,95	-0,039	-6,606	-0,64
			2,6	-767,97	104,42	-26,95	-0,039	28,423	-136,384
LT19	C35	DCON4	0	-788,13	-111,51	-26,43	-0,112	-40,836	-145,952
			1,3	-781,14	-111,51	-26,43	-0,112	-6,48	-0,994
			2,6	-774,15	-111,51	-26,43	-0,112	27,877	143,965
LT19	C35	DCON5	0	-290,09	-2,67	55,37	-0,014	57,791	-4,123
			1,3	-283,1	-2,67	55,37	-0,014	-14,194	-0,657
			2,6	-276,11	-2,67	55,37	-0,014	-86,18	2,808
LT19	C35	DCON6	0	-1280	-4,42	-108,75	-0,138	-140,263	-6,726
			1,3	-1273,01	-4,42	-108,75	-0,138	1,109	-0,977
			2,6	-1266,02	-4,42	-108,75	-0,138	142,48	4,773
LT19	C35	DCON7	0	-644,68	104,74	-22,33	-0,024	-34,389	135,581
			1,3	-637,69	104,74	-22,33	-0,024	-5,362	-0,58
			2,6	-630,7	104,74	-22,33	-0,024	23,665	-136,741
LT19	C35	DCON8	0	-650,86	-111,19	-21,81	-0,098	-33,589	-145,475
			1,3	-643,87	-111,19	-21,81	-0,098	-5,236	-0,933
			2,6	-636,88	-111,19	-21,81	-0,098	23,118	143,608
LT19	C35	DCON9	0	-152,81	-2,34	59,99	0,001	65,037	-3,645
			1,3	-145,82	-2,34	59,99	0,001	-12,95	-0,597
			2,6	-138,84	-2,34	59,99	0,001	-90,938	2,452
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CEN	TERS OF CUMULA	TIVE MASS	& CENT	ERS OF	R I G I D				
STORY	DIAPHRAGM /-----	#NAME?	OF MASS---	-----/--CE	NTER OF RIGI	DITY--/			
LEVEL	NAME	MA	SS ORDI NATE-X ORD	INATE-Y ORDI	NATE-X ORDI	NATE-Y			
ATAP1	D1 3,628E+	2	30 7 30 7						
ATAP2	D1 1,504E+	3	30 6,872 30 7						
LT19	D1 2,695E+	3	30,047 6,941 30 7						
LT18	D1 3,887E+	3	30,065 6,967 30 7						

L17	D1	5,078E+	3	30,075	6,981	30	7
LT16	D1	6,269E+	3	30,081	6,99	30	7
LT15	D1	7,460E+	3	30,085	6,996	30	7
LT14	D1	8,651E+	3	30,088	7	30	7
LT13	D1	9,868E+	3	30,099	6,996	30	7
LT12	D1	1,110E+	4	30,108	6,992	30	7
LT11	D1	1,234E+	4	30,115	6,989	30	7
LT10	D1	1,357E+	4	30,121	6,987	30	7
LT9	D1	1,480E+	4	30,126	6,985	30	7
LT8	D1	1,604E+	4	30,13	6,984	30	7
LT7	D1	1,727E+	4	30,133	6,982	30	7
LT6	D1	1,851E+	4	30,136	6,981	30	7
LT5	D1	1,974E+	4	30,139	6,98	30	7
LT4	D1	2,098E+	4	30,141	6,979	30	7
LT3	D1	2,204E+	4	30,136	6,987	30	7
LT2	D1	2,302E+	4	30,125	6,993	30	7
LT1	D1	2,399E+	4	30,115	6,998	30	7

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STO RY FORCE S

STORY	LOAD	LOCATI	ON	P	VX	VY	T	MX	MY
ATAP1	DL Top		1363	0	0	0	9542	-40900	
	Bottom		1594	0	0	0	11160	-47810	
ATAP1	LL Top		602	0	0	0	4214	-18060	
	Bottom		602	0	0	0	4214	-18060	
ATAP1	SD Top		2017	0	0	0	14120	-60520	
	Bottom		2017	0	0	0	14120	-60520	
ATAP1	EX Top		0	-721	0	5048	0	0	
	Bottom		0	-721	0	5048	0	-2164	
ATAP1	EY Top		0	0	-721	-21640	0	0	
	Bottom		0	0	-721	-21640	2164	0	
ATAP1	SNI2002 Top		0	0	659	709	21810	0	0
	Bottom		0	659	709	21810	2127	1977	
ATAP1	DCON1 Top			4733	0	0	0	33130	-142000
	Bottom		5055	0	0	0	35390	-151700	
ATAP1	DCON2 Top			5020	0	0	0	35140	-150600
	Bottom		5296	0	0	0	37070	-158900	
ATAP1	DCON3 Top			5335	-721	0	5048	37340	-160000
	Bottom		5657	-721	0	5048	39600	-171900	
ATAP1	DCON4 Top			5335	721	0	-5048	37340	-160000
	Bottom		5657	721	0	-5048	39600	-167600	
ATAP1	DCON5 Top			5335	0	-721	-21640	37340	-160000
	Bottom		5657	0	-721	-21640	41760	-169700	
ATAP1	DCON6 Top			5335	0	721	21640	37340	-160000
	Bottom		5657	0	721	21640	37440	-169700	
ATAP1	DCON7 Top			4733	-721	0	5048	33130	-142000
	Bottom		5055	-721	0	5048	35390	-153800	
ATAP1	DCON8 Top			4733	721	0	-5048	33130	-142000
	Bottom		5055	721	0	-5048	35390	-149500	
ATAP1	DCON9 Top			4733	0	-721	-21640	33130	-142000
	Bottom		5055	0	-721	-21640	37550	-151700	

ATAP2	DL	Top	5190	0	0	0	35670	-155700	
		Bottom	5789	0	0	0	39860	-173700	
ATAP2	LL	Top	3810	0	0	0	26050	-114300	
		Bottom	3810	0	0	0	26050	-114300	
ATAP2	SD	Top	7854	0	0	0	54120	-235600	
		Bottom	7854	0	0	0	54120	-235600	
ATAP2	EX	Top	0	-2824	0	19420	0	-2164	
		Bottom	0	-2824	0	19420	0	-10630	
ATAP2	EY	Top	0	0	-2824	-84710	2164	0	
		Bottom	0	0	-2824	-84710	10630	0	
ATAP2	SNI2002	Top		0	2613	2762	85440	2127	1977
		Bottom	0	2613	2762	85440	10410	9814	
ATAP2	DCON1	Top		18260	0	0	0	125700	-547900
		Bottom	19100	0	0	0	131600	-573000	
ATAP2	DCON2	Top		21750	0	0	0	149400	-652500
		Bottom	22470	0	0	0	154500	-674100	
ATAP2	DCON3	Top		22070	-2824	0	19420	151800	-664300
		Bottom	22910	-2824	0	19420	157600	-698000	
ATAP2	DCON4	Top		22070	2824	0	-19420	151800	-660000
		Bottom	22910	2824	0	-19420	157600	-676700	
ATAP2	DCON5	Top		22070	0	-2824	-84710	153900	-662200
		Bottom	22910	0	-2824	-84710	168300	-687300	
ATAP2	DCON6	Top		22070	0	2824	84710	149600	-662200
		Bottom	22910	0	2824	84710	147000	-687300	
ATAP2	DCON7	Top		18260	-2824	0	19420	125700	-550000
		Bottom	19100	-2824	0	19420	131600	-583700	
ATAP2	DCON8	Top		18260	2824	0	-19420	125700	-545700
		Bottom	19100	2824	0	-19420	131600	-562400	
ATAP2	DCON9	Top		18260	0	-2824	-84710	127900	-547900
		Bottom	19100	0	-2824	-84710	142200	-573000	
LT19	DL	Top	9294	0	0	0	64400	-278800	
		Bottom	9893	0	0	0	68590	-296800	
LT19	LL	Top	6548	0	0	0	45300	-196800	
		Bottom	6548	0	0	0	45300	-196800	
LT19	SD	Top	13960	0	0	0	97160	-420000	
		Bottom	13960	0	0	0	97160	-420000	
LT19	EX	Top	0	-4837	0	33580	0	-10630	
		Bottom	0	-4837	0	33580	0	-25150	
LT19	EY	Top	0	0	-4837	-145300	10630	0	
		Bottom	0	0	-4837	-145300	25150	0	
LT19	SNI2002	Top		0	4488	4691	145500	10410	9814
		Bottom	0	4488	4691	145500	24480	23270	
LT19	DCON1	Top		32560	0	0	0	226200	-978300
		Bottom	33400	0	0	0	232000	-1003000	
LT19	DCON2	Top		38390	0	0	0	266300	-1153000
		Bottom	39110	0	0	0	271400	-1175000	

LT19	DCON3	Top		39110	-4837	0	33580	271500	-1186000
	Bottom		39950	-4837	0	33580	277300	-1225000	
LT19	DCON4	Top		39110	4837	0	-33580	271500	-1164000
	Bottom		39950	4837	0	-33580	277300	-1175000	
LT19	DCON5	Top		39110	0	-4837	-145300	282100	-1175000
	Bottom		39950	0	-4837	-145300	302500	-1200000	
LT19	DCON6	Top		39110	0	4837	145300	260800	-1175000
	Bottom		39950	0	4837	145300	252200	-1200000	
LT19	DCON7	Top		32560	-4837	0	33580	226200	-988900
	Bottom		33400	-4837	0	33580	232000	-1029000	
LT19	DCON8	Top		32560	4837	0	-33580	226200	-967700
	Bottom		33400	4837	0	-33580	232000	-978300	
LT19	DCON9	Top		32560	0	-4837	-145300	236800	-978300
	Bottom		33400	0	-4837	-145300	257200	-1003000	
LT18	DL	Top	13400	0	0	0	93130	-402000	
	Bottom		14000	0	0	0	97320	-419900	
LT18	LL	Top	9285	0	0	0	64550	-279200	
	Bottom		9285	0	0	0	64550	-279200	
LT18	SD	Top	20070	0	0	0	140200	-604300	
	Bottom		20070	0	0	0	140200	-604300	
LT18	EX	Top	0	-6748	0	47000	0	-25150	
	Bottom		0	-6748	0	47000	0	-45390	
LT18	EY	Top	0	0	-6748	-202900	25150	0	
	Bottom		0	0	-6748	-202900	45390	0	
LT18	SNI2002	Top		0	6235	6452	200400	24480	23270
	Bottom		0	6235	6452	200400	43800	41960	
LT18	DCON1	Top		46860	0	0	0	326600	-1409000
	Bottom		47700	0	0	0	332500	-1434000	
LT18	DCON2	Top		55020	0	0	0	383300	-1654000
	Bottom		55740	0	0	0	388300	-1676000	
LT18	DCON3	Top		56150	-6748	0	47000	391200	-1713000
	Bottom		56990	-6748	0	47000	397100	-1759000	
LT18	DCON4	Top		56150	6748	0	-47000	391200	-1663000
	Bottom		56990	6748	0	-47000	397100	-1668000	
LT18	DCON5	Top		56150	0	-6748	-202900	416300	-1688000
	Bottom		56990	0	-6748	-202900	442400	-1713000	
LT18	DCON6	Top		56150	0	6748	202900	366000	-1688000
	Bottom		56990	0	6748	202900	351700	-1713000	
LT18	DCON7	Top		46860	-6748	0	47000	326600	-1434000
	Bottom		47700	-6748	0	47000	332500	-1479000	
LT18	DCON8	Top		46860	6748	0	-47000	326600	-1384000
	Bottom		47700	6748	0	-47000	332500	-1389000	
LT18	DCON9	Top		46860	0	-6748	-202900	351800	-1409000
	Bottom		47700	0	-6748	-202900	377900	-1434000	
L17	DL	Top	17500	0	0	0	121900	-525100	
	Bottom		18100	0	0	0	126000	-543000	

L17	LL Top	12020	0	0	0	83800	-361700	
	Bottom	12020	0	0	0	83800	-361700	
L17	SD Top	26180	0	0	0	183200	-788600	
	Bottom	26180	0	0	0	183200	-788600	
L17	EX Top	0	-8555	0	59700	0	-45390	
	Bottom	0	-8555	0	59700	0	-71060	
L17	EY Top	0	0	-8555	-257300	45390	0	
	Bottom	0	0	-8555	-257300	71060	0	
L17	SNI2002 Top		0	7838	8042	250000	43800	41960
	Bottom	0	7838	8042	250000	67830	65400	
L17	DCON1 Top		61160	0	0	0	427100	-1839000
	Bottom	62000	0	0	0	433000	-1864000	
L17	DCON2 Top		71660	0	0	0	500200	-2155000
	Bottom	72380	0	0	0	505200	-2177000	
L17	DCON3 Top		73180	-8555	0	59700	510900	-2246000
	Bottom	74020	-8555	0	59700	516800	-2297000	
L17	DCON4 Top		73180	8555	0	-59700	510900	-2155000
	Bottom	74020	8555	0	-59700	516800	-2155000	
L17	DCON5 Top		73180	0	-8555	-257300	556300	-2201000
	Bottom	74020	0	-8555	-257300	587800	-2226000	
L17	DCON6 Top		73180	0	8555	257300	465500	-2201000
	Bottom	74020	0	8555	257300	445700	-2226000	
L17	DCON7 Top		61160	-8555	0	59700	427100	-1885000
	Bottom	62000	-8555	0	59700	433000	-1935000	
L17	DCON8 Top		61160	8555	0	-59700	427100	-1794000
	Bottom	62000	8555	0	-59700	433000	-1793000	
L17	DCON9 Top		61160	0	-8555	-257300	472500	-1839000
	Bottom	62000	0	-8555	-257300	504000	-1864000	
LT16	DL Top	21610	0	0	0	150600	-648200	
	Bottom	22210	0	0	0	154800	-666200	
LT16	LL Top	14760	0	0	0	103000	-444200	
	Bottom	14760	0	0	0	103000	-444200	
LT16	SD Top	32290	0	0	0	226300	-973000	
	Bottom	32290	0	0	0	226300	-973000	
LT16	EX Top	0	-10260	0	71680	0	-71060	
	Bottom	0	-10260	0	71680	0	-101800	
LT16	EY Top	0	0	-10260	-308600	71060	0	
	Bottom	0	0	-10260	-308600	101800	0	
LT16	SNI2002 Top		0	9309	9485	295100	67830	65400
	Bottom	0	9309	9485	295100	96060	93150	
LT16	DCON1 Top		75460	0	0	0	527600	-2270000
	Bottom	76300	0	0	0	533400	-2295000	
LT16	DCON2 Top		88300	0	0	0	617100	-2656000
	Bottom	89020	0	0	0	622100	-2678000	
LT16	DCON3 Top		90220	-10260	0	71680	630600	-2785000
	Bottom	91060	-10260	0	71680	636500	-2841000	

LT16	DCON4	Top		90220	10260	0	-71680	630600	-2643000
	Bottom		91060	10260	0	-71680	636500	-2637000	
LT16	DCON5	Top		90220	0	-10260	-308600	701700	-2714000
	Bottom		91060	0	-10260	-308600	738300	-2739000	
LT16	DCON6	Top		90220	0	10260	308600	559600	-2714000
	Bottom		91060	0	10260	308600	534700	-2739000	
LT16	DCON7	Top		75460	-10260	0	71680	527600	-2341000
	Bottom		76300	-10260	0	71680	533400	-2397000	
LT16	DCON8	Top		75460	10260	0	-71680	527600	-2199000
	Bottom		76300	10260	0	-71680	533400	-2193000	
LT16	DCON9	Top		75460	0	-10260	-308600	598600	-2270000
	Bottom		76300	0	-10260	-308600	635300	-2295000	
LT15	DL	Top	25710	0	0	0	179300	-771300	
	Bottom		26310	0	0	0	183500	-789300	
LT15	LL	Top	17500	0	0	0	122300	-526600	
	Bottom		17500	0	0	0	122300	-526600	
LT15	SD	Top	38400	0	0	0	269300	-1157000	
	Bottom		38400	0	0	0	269300	-1157000	
LT15	EX	Top	0	-11860	0	82920	0	-101800	
	Bottom		0	-11860	0	82920	0	-137400	
LT15	EY	Top	0	0	-11860	-356800	101800	0	
	Bottom		0	0	-11860	-356800	137400	0	
LT15	SNI2002	Top		0	10680	10820	336700	96060	93150
	Bottom		0	10680	10820	336700	128100	124800	
LT15	DCON1	Top		89760	0	0	0	628000	-2700000
	Bottom		90600	0	0	0	633900	-2725000	
LT15	DCON2	Top		104900	0	0	0	734000	-3157000
	Bottom		105700	0	0	0	739000	-3179000	
LT15	DCON3	Top		107300	-11860	0	82920	750300	-3329000
	Bottom		108100	-11860	0	82920	756200	-3389000	
LT15	DCON4	Top		107300	11860	0	-82920	750300	-3125000
	Bottom		108100	11860	0	-82920	756200	-3114000	
LT15	DCON5	Top		107300	0	-11860	-356800	852200	-3227000
	Bottom		108100	0	-11860	-356800	893600	-3252000	
LT15	DCON6	Top		107300	0	11860	356800	648500	-3227000
	Bottom		108100	0	11860	356800	618800	-3252000	
LT15	DCON7	Top		89760	-11860	0	82920	628000	-2802000
	Bottom		90600	-11860	0	82920	633900	-2863000	
LT15	DCON8	Top		89760	11860	0	-82920	628000	-2598000
	Bottom		90600	11860	0	-82920	633900	-2588000	
LT15	DCON9	Top		89760	0	-11860	-356800	729900	-2700000
	Bottom		90600	0	-11860	-356800	771300	-2725000	
LT14	DL	Top	29810	0	0	0	208000	-894400	
	Bottom		30410	0	0	0	212200	-912400	
LT14	LL	Top	20240	0	0	0	141500	-609100	
	Bottom		20240	0	0	0	141500	-609100	

LT14	SD Top		44510	0	0	0	312300	-1342000	
	Bottom		44510	0	0	0	312300	-1342000	
LT14	EX Top		0	-13360	0	93450	0	-137400	
	Bottom		0	-13360	0	93450	0	-177500	
LT14	EY Top		0	0	-13360	-401900	137400	0	
	Bottom		0	0	-13360	-401900	177500	0	
LT14	SNI2002	Top		0	11970	12070	376000	128100	124800
	Bottom		0	11970	12070	376000	163600	160200	
LT14	DCON1	Top		104100	0	0	0	728500	-3130000
	Bottom		104900	0	0	0	734400	-3156000	
LT14	DCON2	Top		121600	0	0	0	850900	-3658000
	Bottom		122300	0	0	0	855900	-3679000	
LT14	DCON3	Top		124300	-13360	0	93450	870000	-3877000
	Bottom		125100	-13360	0	93450	875900	-3942000	
LT14	DCON4	Top		124300	13360	0	-93450	870000	-3602000
	Bottom		125100	13360	0	-93450	875900	-3587000	
LT14	DCON5	Top		124300	0	-13360	-401900	1007000	-3740000
	Bottom		125100	0	-13360	-401900	1053000	-3765000	
LT14	DCON6	Top		124300	0	13360	401900	732600	-3740000
	Bottom		125100	0	13360	401900	698400	-3765000	
LT14	DCON7	Top		104100	-13360	0	93450	728500	-3268000
	Bottom		104900	-13360	0	93450	734400	-3333000	
LT14	DCON8	Top		104100	13360	0	-93450	728500	-2993000
	Bottom		104900	13360	0	-93450	734400	-2978000	
LT14	DCON9	Top		104100	0	-13360	-401900	865900	-3130000
	Bottom		104900	0	-13360	-401900	911900	-3156000	
LT13	DL Top		33920	0	0	0	236800	-1018000	
	Bottom		34850	0	0	0	243300	-1046000	
LT13	LL Top		23010	0	0	0	160800	-692800	
	Bottom		23010	0	0	0	160800	-692800	
LT13	SD Top		50720	0	0	0	355400	-1530000	
	Bottom		50720	0	0	0	355400	-1530000	
LT13	EX Top		0	-14780	0	103400	0	-177500	
	Bottom		0	-14780	0	103400	0	-221800	
LT13	EY Top		0	0	-14780	-444900	177500	0	
	Bottom		0	0	-14780	-444900	221800	0	
LT13	SNI2002	Top		0	13240	13300	414300	163600	160200
	Bottom		0	13240	13300	414300	202500	199000	
LT13	DCON1	Top		118500	0	0	0	829100	-3566000
	Bottom		119800	0	0	0	838200	-3605000	
LT13	DCON2	Top		138400	0	0	0	967900	-4165000
	Bottom		139500	0	0	0	975800	-4199000	
LT13	DCON3	Top		141500	-14780	0	103400	989900	-4436000
	Bottom		142800	-14780	0	103400	999000	-4520000	
LT13	DCON4	Top		141500	14780	0	-103400	989900	-4081000
	Bottom		142800	14780	0	-103400	999000	-4076000	

LT13	DCON5	Top		141500	0	-14780	-444900	1167000	-4259000
	Bottom		142800	0	-14780	-444900	1221000	-4298000	
LT13	DCON6	Top		141500	0	14780	444900	812400	-4259000
	Bottom		142800	0	14780	444900	777200	-4298000	
LT13	DCON7	Top		118500	-14780	0	103400	829100	-3744000
	Bottom		119800	-14780	0	103400	838200	-3827000	
LT13	DCON8	Top		118500	14780	0	-103400	829100	-3389000
	Bottom		119800	14780	0	-103400	838200	-3384000	
LT13	DCON9	Top		118500	0	-14780	-444900	1007000	-3566000
	Bottom		119800	0	-14780	-444900	1060000	-3605000	
LT12	DL	Top	38360	0	0	0	267900	-1151000	
	Bottom		39300	0	0	0	274400	-1179000	
LT12	LL	Top	25780	0	0	0	180100	-776500	
	Bottom		25780	0	0	0	180100	-776500	
LT12	SD	Top	56930	0	0	0	398500	-1718000	
	Bottom		56930	0	0	0	398500	-1718000	
LT12	EX	Top	0	-16120	0	112700	0	-221800	
	Bottom		0	-16120	0	112700	0	-270200	
LT12	EY	Top	0	0	-16120	-485200	221800	0	
	Bottom		0	0	-16120	-485200	270200	0	
LT12	SNI2002	Top		0	14480	14500	451800	202500	199000
	Bottom		0	14480	14500	451800	244800	241300	
LT12	DCON1	Top		133400	0	0	0	932900	-4016000
	Bottom		134700	0	0	0	942100	-4055000	
LT12	DCON2	Top		155600	0	0	0	1088000	-4685000
	Bottom		156700	0	0	0	1096000	-4718000	
LT12	DCON3	Top		159200	-16120	0	112700	1113000	-5014000
	Bottom		160500	-16120	0	112700	1122000	-5102000	
LT12	DCON4	Top		159200	16120	0	-112700	1113000	-4571000
	Bottom		160500	16120	0	-112700	1122000	-4561000	
LT12	DCON5	Top		159200	0	-16120	-485200	1335000	-4792000
	Bottom		160500	0	-16120	-485200	1392000	-4832000	
LT12	DCON6	Top		159200	0	16120	485200	891200	-4792000
	Bottom		160500	0	16120	485200	852000	-4832000	
LT12	DCON7	Top		133400	-16120	0	112700	932900	-4238000
	Bottom		134700	-16120	0	112700	942100	-4325000	
LT12	DCON8	Top		133400	16120	0	-112700	932900	-3794000
	Bottom		134700	16120	0	-112700	942100	-3785000	
LT12	DCON9	Top		133400	0	-16120	-485200	1155000	-4016000
	Bottom		134700	0	-16120	-485200	1212000	-4055000	
LT11	DL	Top	42800	0	0	0	298900	-1284000	
	Bottom		43740	0	0	0	305500	-1312000	
LT11	LL	Top	28550	0	0	0	199400	-860200	
	Bottom		28550	0	0	0	199400	-860200	
LT11	SD	Top	63140	0	0	0	441600	-1906000	
	Bottom		63140	0	0	0	441600	-1906000	



LT11	EX Top		0	-17350	0	121300	0	-270200	
	Bottom		0	-17350	0	121300	0	-322300	
LT11	EY Top		0	0	-17350	-522400	270200	0	
	Bottom		0	0	-17350	-522400	322300	0	
LT11	SNI2002	Top		0	15680	15630	487300	244800	241300
	Bottom		0	15680	15630	487300	290200	287000	
LT11	DCON1	Top		148300	0	0	0	1037000	-4466000
	Bottom		149600	0	0	0	1046000	-4505000	
LT11	DCON2	Top		172800	0	0	0	1208000	-5204000
	Bottom		173900	0	0	0	1215000	-5238000	
LT11	DCON3	Top		176900	-17350	0	121300	1236000	-5596000
	Bottom		178200	-17350	0	121300	1245000	-5687000	
LT11	DCON4	Top		176900	17350	0	-121300	1236000	-5056000
	Bottom		178200	17350	0	-121300	1245000	-5043000	
LT11	DCON5	Top		176900	0	-17350	-522400	1506000	-5326000
	Bottom		178200	0	-17350	-522400	1568000	-5365000	
LT11	DCON6	Top		176900	0	17350	522400	965900	-5326000
	Bottom		178200	0	17350	522400	923000	-5365000	
LT11	DCON7	Top		148300	-17350	0	121300	1037000	-4736000
	Bottom		149600	-17350	0	121300	1046000	-4827000	
LT11	DCON8	Top		148300	17350	0	-121300	1037000	-4195000
	Bottom		149600	17350	0	-121300	1046000	-4183000	
LT11	DCON9	Top		148300	0	-17350	-522400	1307000	-4466000
	Bottom		149600	0	-17350	-522400	1368000	-4505000	
LT10	DL Top		47240	0	0	0	330000	-1417000	
	Bottom		48180	0	0	0	336600	-1445000	
LT10	LL Top		31320	0	0	0	218600	-943900	
	Bottom		31320	0	0	0	218600	-943900	
LT10	SD Top		69350	0	0	0	484700	-2094000	
	Bottom		69350	0	0	0	484700	-2094000	
LT10	EX Top		0	-18470	0	129100	0	-322300	
	Bottom		0	-18470	0	129100	0	-377700	
LT10	EY Top		0	0	-18470	-556300	322300	0	
	Bottom		0	0	-18470	-556300	377700	0	
LT10	SNI2002	Top		0	16810	16680	520300	290200	287000
	Bottom		0	16810	16680	520300	338600	335900	
LT10	DCON1	Top		163200	0	0	0	1141000	-4915000
	Bottom		164500	0	0	0	1150000	-4955000	
LT10	DCON2	Top		190000	0	0	0	1327000	-5723000
	Bottom		191100	0	0	0	1335000	-5757000	
LT10	DCON3	Top		194500	-18470	0	129100	1359000	-6182000
	Bottom		195800	-18470	0	129100	1368000	-6276000	
LT10	DCON4	Top		194500	18470	0	-129100	1359000	-5537000
	Bottom		195800	18470	0	-129100	1368000	-5521000	
LT10	DCON5	Top		194500	0	-18470	-556300	1681000	-5859000
	Bottom		195800	0	-18470	-556300	1746000	-5899000	

LT10	DCON6	Top		194500	0	18470	556300	1037000	-5859000
	Bottom		195800	0	18470	556300	990700	-5899000	
LT10	DCON7	Top		163200	-18470	0	129100	1141000	-5238000
	Bottom		164500	-18470	0	129100	1150000	-5332000	
LT10	DCON8	Top		163200	18470	0	-129100	1141000	-4593000
	Bottom		164500	18470	0	-129100	1150000	-4577000	
LT10	DCON9	Top		163200	0	-18470	-556300	1463000	-4915000
	Bottom		164500	0	-18470	-556300	1527000	-4955000	
LT9	DL	Top	51680	0	0	0	361100	-1550000	
	Bottom		52620	0	0	0	367700	-1579000	
LT9	LL	Top	34090	0	0	0	237900	-1028000	
	Bottom		34090	0	0	0	237900	-1028000	
LT9	SD	Top	75550	0	0	0	527800	-2282000	
	Bottom		75550	0	0	0	527800	-2282000	
LT9	EX	Top	0	-19490	0	136200	0	-377700	
	Bottom		0	-19490	0	136200	0	-436200	
LT9	EY	Top	0	0	-19490	-587000	377700	0	
	Bottom		0	0	-19490	-587000	436200	0	
LT9	SNI2002	Top		0	17850	17640	550400	338600	335900
	Bottom		0	17850	17640	550400	389900	387900	
LT9	DCON1	Top		178100	0	0	0	1244000	-5365000
	Bottom		179400	0	0	0	1254000	-5404000	
LT9	DCON2	Top		207200	0	0	0	1447000	-6243000
	Bottom		208300	0	0	0	1455000	-6277000	
LT9	DCON3	Top		212200	-19490	0	136200	1482000	-6770000
	Bottom		213500	-19490	0	136200	1492000	-6868000	
LT9	DCON4	Top		212200	19490	0	-136200	1482000	-6015000
	Bottom		213500	19490	0	-136200	1492000	-5996000	
LT9	DCON5	Top		212200	0	-19490	-587000	1860000	-6393000
	Bottom		213500	0	-19490	-587000	1928000	-6432000	
LT9	DCON6	Top		212200	0	19490	587000	1105000	-6393000
	Bottom		213500	0	19490	587000	1055000	-6432000	
LT9	DCON7	Top		178100	-19490	0	136200	1244000	-5743000
	Bottom		179400	-19490	0	136200	1254000	-5841000	
LT9	DCON8	Top		178100	19490	0	-136200	1244000	-4987000
	Bottom		179400	19490	0	-136200	1254000	-4968000	
LT9	DCON9	Top		178100	0	-19490	-587000	1622000	-5365000
	Bottom		179400	0	-19490	-587000	1690000	-5404000	
LT8	DL	Top	56120	0	0	0	392200	-1684000	
	Bottom		57060	0	0	0	398800	-1712000	
LT8	LL	Top	36860	0	0	0	257200	-1111000	
	Bottom		36860	0	0	0	257200	-1111000	
LT8	SD	Top	81760	0	0	0	570900	-2470000	
	Bottom		81760	0	0	0	570900	-2470000	
LT8	EX	Top	0	-20400	0	142500	0	-436200	
	Bottom		0	-20400	0	142500	0	-497400	

LT8	EY Top		0	0	-20400	-614400	436200	0	
	Bottom		0	0	-20400	-614400	497400	0	
LT8	SNI2002 Top			0	18810	18510	577700	389900	387900
	Bottom		0	18810	18510	577700	443700	442800	
LT8	DCON1 Top			193000	0	0	0	1348000	-5815000
	Bottom		194300	0	0	0	1357000	-5854000	
LT8	DCON2 Top			224400	0	0	0	1567000	-6762000
	Bottom		225600	0	0	0	1575000	-6796000	
LT8	DCON3 Top			229900	-20400	0	142500	1605000	-7362000
	Bottom		231200	-20400	0	142500	1615000	-7463000	
LT8	DCON4 Top			229900	20400	0	-142500	1605000	-6490000
	Bottom		231200	20400	0	-142500	1615000	-6468000	
LT8	DCON5 Top			229900	0	-20400	-614400	2042000	-6926000
	Bottom		231200	0	-20400	-614400	2112000	-6966000	
LT8	DCON6 Top			229900	0	20400	614400	1169000	-6926000
	Bottom		231200	0	20400	614400	1117000	-6966000	
LT8	DCON7 Top			193000	-20400	0	142500	1348000	-6251000
	Bottom		194300	-20400	0	142500	1357000	-6352000	
LT8	DCON8 Top			193000	20400	0	-142500	1348000	-5379000
	Bottom		194300	20400	0	-142500	1357000	-5357000	
LT8	DCON9 Top			193000	0	-20400	-614400	1784000	-5815000
	Bottom		194300	0	-20400	-614400	1855000	-5854000	
LT7	DL Top		60560	0	0	0	423300	-1817000	
	Bottom		61500	0	0	0	429800	-1845000	
LT7	LL Top		39630	0	0	0	276400	-1195000	
	Bottom		39630	0	0	0	276400	-1195000	
LT7	SD Top		87970	0	0	0	614000	-2658000	
	Bottom		87970	0	0	0	614000	-2658000	
LT7	EX Top		0	-21200	0	148100	0	-497400	
	Bottom		0	-21200	0	148100	0	-561000	
LT7	EY Top		0	0	-21200	-638600	497400	0	
	Bottom		0	0	-21200	-638600	561000	0	
LT7	SNI2002 Top			0	19690	19300	602500	443700	442800
	Bottom		0	19690	19300	602500	499900	500200	
LT7	DCON1 Top			207900	0	0	0	1452000	-6265000
	Bottom		209300	0	0	0	1461000	-6304000	
LT7	DCON2 Top			241600	0	0	0	1687000	-7282000
	Bottom		242800	0	0	0	1695000	-7315000	
LT7	DCON3 Top			247600	-21200	0	148100	1729000	-7957000
	Bottom		248900	-21200	0	148100	1738000	-8060000	
LT7	DCON4 Top			247600	21200	0	-148100	1729000	-6962000
	Bottom		248900	21200	0	-148100	1738000	-6938000	
LT7	DCON5 Top			247600	0	-21200	-638600	2226000	-7460000
	Bottom		248900	0	-21200	-638600	2299000	-7499000	
LT7	DCON6 Top			247600	0	21200	638600	1231000	-7460000
	Bottom		248900	0	21200	638600	1177000	-7499000	

LT7	DCON7	Top		207900	-21200	0	148100	1452000	-6762000
	Bottom		209300	-21200	0	148100	1461000	-6865000	
LT7	DCON8	Top		207900	21200	0	-148100	1452000	-5767000
	Bottom		209300	21200	0	-148100	1461000	-5743000	
LT7	DCON9	Top		207900	0	-21200	-638600	1950000	-6265000
	Bottom		209300	0	-21200	-638600	2022000	-6304000	
LT6	DL	Top	65010	0	0	0	454400	-1950000	
	Bottom		65940	0	0	0	460900	-1978000	
LT6	LL	Top	42400	0	0	0	295700	-1279000	
	Bottom		42400	0	0	0	295700	-1279000	
LT6	SD	Top	94180	0	0	0	657100	-2846000	
	Bottom		94180	0	0	0	657100	-2846000	
LT6	EX	Top	0	-21900	0	152900	0	-561000	
	Bottom		0	-21900	0	152900	0	-626700	
LT6	EY	Top	0	0	-21900	-659600	561000	0	
	Bottom		0	0	-21900	-659600	626700	0	
LT6	SNI2002	Top		0	20500	20020	625200	499900	500200
	Bottom		0	20500	20020	625200	558100	560000	
LT6	DCON1	Top		222900	0	0	0	1556000	-6714000
	Bottom		224200	0	0	0	1565000	-6754000	
LT6	DCON2	Top		258800	0	0	0	1807000	-7801000
	Bottom		260000	0	0	0	1815000	-7835000	
LT6	DCON3	Top		265200	-21900	0	152900	1852000	-8554000
	Bottom		266600	-21900	0	152900	1861000	-8659000	
LT6	DCON4	Top		265200	21900	0	-152900	1852000	-7432000
	Bottom		266600	21900	0	-152900	1861000	-7406000	
LT6	DCON5	Top		265200	0	-21900	-659600	2413000	-7993000
	Bottom		266600	0	-21900	-659600	2488000	-8032000	
LT6	DCON6	Top		265200	0	21900	659600	1291000	-7993000
	Bottom		266600	0	21900	659600	1234000	-8032000	
LT6	DCON7	Top		222900	-21900	0	152900	1556000	-7275000
	Bottom		224200	-21900	0	152900	1565000	-7380000	
LT6	DCON8	Top		222900	21900	0	-152900	1556000	-6153000
	Bottom		224200	21900	0	-152900	1565000	-6127000	
LT6	DCON9	Top		222900	0	-21900	-659600	2117000	-6714000
	Bottom		224200	0	-21900	-659600	2192000	-6754000	
LT5	DL	Top	69450	0	0	0	485500	-2083000	
	Bottom		70380	0	0	0	492000	-2111000	
LT5	LL	Top	45170	0	0	0	315000	-1362000	
	Bottom		45170	0	0	0	315000	-1362000	
LT5	SD	Top	100400	0	0	0	700200	-3034000	
	Bottom		100400	0	0	0	700200	-3034000	
LT5	EX	Top	0	-22490	0	157000	0	-626700	
	Bottom		0	-22490	0	157000	0	-694100	
LT5	EY	Top	0	0	-22490	-677400	626700	0	
	Bottom		0	0	-22490	-677400	694100	0	

LT5	SNI2002	Top		0	21250	20690	646200	558100	560000
	Bottom		0	21250	20690	646200	618200	621900	
LT5	DCON1	Top		237800	0	0	0	1660000	-7164000
	Bottom		239100	0	0	0	1669000	-7203000	
LT5	DCON2	Top		276100	0	0	0	1927000	-8321000
	Bottom		277200	0	0	0	1935000	-8354000	
LT5	DCON3	Top		282900	-22490	0	157000	1975000	-9153000
	Bottom		284200	-22490	0	157000	1984000	-9260000	
LT5	DCON4	Top		282900	22490	0	-157000	1975000	-7900000
	Bottom		284200	22490	0	-157000	1984000	-7872000	
LT5	DCON5	Top		282900	0	-22490	-677400	2602000	-8527000
	Bottom		284200	0	-22490	-677400	2678000	-8566000	
LT5	DCON6	Top		282900	0	22490	677400	1348000	-8527000
	Bottom		284200	0	22490	677400	1290000	-8566000	
LT5	DCON7	Top		237800	-22490	0	157000	1660000	-7791000
	Bottom		239100	-22490	0	157000	1669000	-7898000	
LT5	DCON8	Top		237800	22490	0	-157000	1660000	-6538000
	Bottom		239100	22490	0	-157000	1669000	-6509000	
LT5	DCON9	Top		237800	0	-22490	-677400	2287000	-7164000
	Bottom		239100	0	-22490	-677400	2363000	-7203000	
LT4	DL	Top	73890	0	0	0	516500	-2217000	
	Bottom		74820	0	0	0	523100	-2245000	
LT4	LL	Top	47940	0	0	0	334200	-1446000	
	Bottom		47940	0	0	0	334200	-1446000	
LT4	SD	Top	106600	0	0	0	743300	-3222000	
	Bottom		106600	0	0	0	743300	-3222000	
LT4	EX	Top	0	-22970	0	160400	0	-694100	
	Bottom		0	-22970	0	160400	0	-763000	
LT4	EY	Top	0	0	-22970	-691900	694100	0	
	Bottom		0	0	-22970	-691900	763000	0	
LT4	SNI2002	Top		0	21930	21300	665400	618200	621900
	Bottom		0	21930	21300	665400	679900	685800	
LT4	DCON1	Top		252700	0	0	0	1764000	-7614000
	Bottom		254000	0	0	0	1773000	-7653000	
LT4	DCON2	Top		293300	0	0	0	2047000	-8840000
	Bottom		294400	0	0	0	2054000	-8874000	
LT4	DCON3	Top		300600	-22970	0	160400	2098000	-9754000
	Bottom		301900	-22970	0	160400	2107000	-9862000	
LT4	DCON4	Top		300600	22970	0	-160400	2098000	-8366000
	Bottom		301900	22970	0	-160400	2107000	-8336000	
LT4	DCON5	Top		300600	0	-22970	-691900	2792000	-9060000
	Bottom		301900	0	-22970	-691900	2870000	-9099000	
LT4	DCON6	Top		300600	0	22970	691900	1404000	-9060000
	Bottom		301900	0	22970	691900	1344000	-9099000	
LT4	DCON7	Top		252700	-22970	0	160400	1764000	-8308000
	Bottom		254000	-22970	0	160400	1773000	-8416000	

LT4	DCON8	Top		252700	22970	0	-160400	1764000	-6920000
	Bottom		254000	22970	0	-160400	1773000	-6890000	
LT4	DCON9	Top		252700	0	-22970	-691900	2458000	-7614000
	Bottom		254000	0	-22970	-691900	2536000	-7653000	
LT3	DL	Top	78330	0	0	0	547600	-2350000	
	Bottom		79900	0	0	0	558600	-2397000	
LT3	LL	Top	49030	0	0	0	342500	-1479000	
	Bottom		49030	0	0	0	342500	-1479000	
LT3	SD	Top	111900	0	0	0	781500	-3381000	
	Bottom		111900	0	0	0	781500	-3381000	
LT3	EX	Top	0	-23290	0	162700	0	-763000	
	Bottom		0	-23290	0	162700	0	-844600	
LT3	EY	Top	0	0	-23290	-701700	763000	0	
	Bottom		0	0	-23290	-701700	844600	0	
LT3	SNI2002	Top		0	22460	21770	680000	679900	685800
	Bottom		0	22460	21770	680000	753600	762000	
LT3	DCON1	Top		266300	0	0	0	1861000	-8024000
	Bottom		268500	0	0	0	1876000	-8090000	
LT3	DCON2	Top		306700	0	0	0	2143000	-9244000
	Bottom		308600	0	0	0	2156000	-9301000	
LT3	DCON3	Top		315300	-23290	0	162700	2203000	-10270000
	Bottom		317500	-23290	0	162700	2219000	-10410000	
LT3	DCON4	Top		315300	23290	0	-162700	2203000	-8740000
	Bottom		317500	23290	0	-162700	2219000	-8724000	
LT3	DCON5	Top		315300	0	-23290	-701700	2966000	-9503000
	Bottom		317500	0	-23290	-701700	3063000	-9569000	
LT3	DCON6	Top		315300	0	23290	701700	1440000	-9503000
	Bottom		317500	0	23290	701700	1374000	-9569000	
LT3	DCON7	Top		266300	-23290	0	162700	1861000	-8787000
	Bottom		268500	-23290	0	162700	1876000	-8934000	
LT3	DCON8	Top		266300	23290	0	-162700	1861000	-7261000
	Bottom		268500	23290	0	-162700	1876000	-7245000	
LT3	DCON9	Top		266300	0	-23290	-701700	2624000	-8024000
	Bottom		268500	0	-23290	-701700	2721000	-8090000	
LT2	DL	Top	83410	0	0	0	583200	-2502000	
	Bottom		84980	0	0	0	594200	-2549000	
LT2	LL	Top	49610	0	0	0	347000	-1496000	
	Bottom		49610	0	0	0	347000	-1496000	
LT2	SD	Top	116300	0	0	0	812900	-3511000	
	Bottom		116300	0	0	0	812900	-3511000	
LT2	EX	Top	0	-23490	0	164100	0	-844600	
	Bottom		0	-23490	0	164100	0	-926800	
LT2	EY	Top	0	0	-23490	-707500	844600	0	
	Bottom		0	0	-23490	-707500	926800	0	
LT2	SNI2002	Top		0	22820	22090	690000	753600	762000
	Bottom		0	22820	22090	690000	828400	839700	



LT2	DCON1	Top		279500	0	0	0	1954000	-8419000
	Bottom		281700	0	0	0	1970000	-8485000	
LT2	DCON2	Top		319000	0	0	0	2231000	-9609000
	Bottom		320800	0	0	0	2244000	-9666000	
LT2	DCON3	Top		329100	-23490	0	164100	2301000	-10760000
	Bottom		331300	-23490	0	164100	2317000	-10910000	
LT2	DCON4	Top		329100	23490	0	-164100	2301000	-9070000
	Bottom		331300	23490	0	-164100	2317000	-9054000	
LT2	DCON5	Top		329100	0	-23490	-707500	3146000	-9915000
	Bottom		331300	0	-23490	-707500	3244000	-9981000	
LT2	DCON6	Top		329100	0	23490	707500	1457000	-9915000
	Bottom		331300	0	23490	707500	1390000	-9981000	
LT2	DCON7	Top		279500	-23490	0	164100	1954000	-9263000
	Bottom		281700	-23490	0	164100	1970000	-9411000	
LT2	DCON8	Top		279500	23490	0	-164100	1954000	-7574000
	Bottom		281700	23490	0	-164100	1970000	-7558000	
LT2	DCON9	Top		279500	0	-23490	-707500	2799000	-8419000
	Bottom		281700	0	-23490	-707500	2897000	-8485000	
LT1	DL	Top	88480	0	0	0	618700	-2654000	
	Bottom		90060	0	0	0	629700	-2702000	
LT1	LL	Top	50190	0	0	0	351600	-1513000	
	Bottom		50190	0	0	0	351600	-1513000	
LT1	SD	Top	120600	0	0	0	844200	-3641000	
	Bottom		120600	0	0	0	844200	-3641000	
LT1	EX	Top	0	-23590	0	164800	0	-926800	
	Bottom		0	-23590	0	164800	0	-1009000	
LT1	EY	Top	0	0	-23590	-710500	926800	0	
	Bottom		0	0	-23590	-710500	1009000	0	
LT1	SNI2002	Top		0	23030	22280	695900	828400	839700
	Bottom		0	23030	22280	695900	904100	918200	
LT1	DCON1	Top		292700	0	0	0	2048000	-8814000
	Bottom		294900	0	0	0	2064000	-8880000	
LT1	DCON2	Top		331200	0	0	0	2318000	-9975000
	Bottom		333100	0	0	0	2331000	-10030000	
LT1	DCON3	Top		342900	-23590	0	164800	2400000	-11250000
	Bottom		345100	-23590	0	164800	2415000	-11400000	
LT1	DCON4	Top		342900	23590	0	-164800	2400000	-9400000
	Bottom		345100	23590	0	-164800	2415000	-9383000	
LT1	DCON5	Top		342900	0	-23590	-710500	3327000	-10330000
	Bottom		345100	0	-23590	-710500	3424000	-10390000	
LT1	DCON6	Top		342900	0	23590	710500	1473000	-10330000
	Bottom		345100	0	23590	710500	1406000	-10390000	
LT1	DCON7	Top		292700	-23590	0	164800	2048000	-9740000
	Bottom		294900	-23590	0	164800	2064000	-9889000	
LT1	DCON8	Top		292700	23590	0	-164800	2048000	-7887000
	Bottom		294900	23590	0	-164800	2064000	-7870000	

LT1	DCON9 Bottom	Top	292700 294900	0 0	-23590 -23590	-710500 -710500	2975000 3073000	-8814000 -8880000
ETABS	v9.2.0 File:MDL	REF BARU U	nits:KN-	m Agustus	23, 2011 20:2	6 PAGE 5		
TRI	BUTARY A	REA AN	D RE	DUCE	LIVE LOAD FA	CTORS		
STORY LEVEL	OBJECT LABEL	OBJECT TYPE	TRI	BUTARY AREA	RED FACTOR	UCED LL		
LT19	C35 Column		39,18	0,7826				

